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\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	4	APR 04	STN AnaVist \$500 visualization usage credit offered
NEWS	5	MAY 10	CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS	6	MAY 11	KOREAPAT updates resume
NEWS	7	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS	8	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAPLUS and USPATFULL/USPAT2
NEWS	9	MAY 30	The F-Term thesaurus is now available in CA/CAPLUS
NEWS	10	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS	11	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS	12	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS	13	JUL 11	CHEMSAFE reloaded and enhanced
NEWS	14	JUL 14	FSTA enhanced with Japanese patents
NEWS	15	JUL 19	Coverage of Research Disclosure reinstated in DWPI
NEWS EXPRESS		JUNE 30	CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS LOGIN			Welcome Banner and News Items
NEWS IPC8			For general information regarding STN implementation of IPC 8
NEWS X25			X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 15:44:16 ON 19 JUL 2006

=> file biosis

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'BIOSIS' ENTERED AT 15:44:25 ON 19 JUL 2006  
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FILE COVERS 1969 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 12 July 2006 (20060712/ED)

=> s (karite or "African butter" or shetoulou or "shea butter" or "shea tree" or  
gharitti or "Butyrospermum parkii" or "butter seed" or "Vitellaria paradoxa") and  
pd<20030630 and saponin

20 KARITE  
72263 "AFRICAN"  
2117 "AFRICANS"  
73167 "AFRICAN"  
("AFRICAN" OR "AFRICANS")  
4676 "BUTTER"  
169 "BUTTERS"  
4724 "BUTTER"  
("BUTTER" OR "BUTTERS")  
0 "AFRICAN BUTTER"  
("AFRICAN" (W) "BUTTER")  
0 SHETOULOU  
255 "SHEA"  
1 "SHEAS"  
256 "SHEA"  
("SHEA" OR "SHEAS")  
4676 "BUTTER"  
169 "BUTTERS"  
4724 "BUTTER"  
("BUTTER" OR "BUTTERS")  
48 "SHEA BUTTER"  
("SHEA" (W) "BUTTER")  
255 "SHEA"  
1 "SHEAS"  
256 "SHEA"  
("SHEA" OR "SHEAS")  
94779 "TREE"  
74655 "TREES"  
137988 "TREE"  
("TREE" OR "TREES")  
21 "SHEA TREE"  
("SHEA" (W) "TREE")  
0 GHARITTI  
39 "BUTYROSPERMUM"  
33 "PARKII"  
24 "BUTYROSPERMUM PARKII"  
("BUTYROSPERMUM" (W) "PARKII")  
4676 "BUTTER"  
169 "BUTTERS"  
4724 "BUTTER"  
("BUTTER" OR "BUTTERS")  
129425 "SEED"  
78959 "SEEDS"  
165153 "SEED"

```

        ("SEED" OR "SEEDS")
4  "BUTTER SEED"
        ("BUTTER" (W) "SEED")
469 "VITELLARIA"
1  "VITELLARIAS"
469 "VITELLARIA"
        ("VITELLARIA" OR "VITELLARIAS")
1438 "PARADOXA"
64  "VITELLARIA PARADOXA"
        ("VITELLARIA" (W) "PARADOXA")
13683345 PD<20030630
        (PD<20030630)
5795 SAPONIN
4237 SAPONINS
8578 SAPONIN
        (SAPONIN OR SAPONINS)
L1      1 (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR
        "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM PARKII" OR "BUTTER
        SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND SAPONIN

```

=> d ll 1 ti

```

L1  ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI  Biochemical and histological alterations in the liver of the broiler after
    ingestion of vegetable saponins and effects of dietary
    supplementation with adsorbents or methyl donor.

```

=> s (karite or "African butter" or shetoulou or "shea butter" or "shea tree" or gharitti or "Butyrospermum parkii" or "butter seed" or "Vitellaria paradoxa") and pd<20030630 and (waste or waste or "lees" or "by-product" or "by product" or spent) UNMATCHED LEFT PARENTHESIS 'AND (WASTE'

The number of right parentheses in a query must be equal to the number of left parentheses.

```

=> s (karite or "African butter" or shetoulou or "shea butter" or "shea tree" or
gharitti or "Butyrospermum parkii" or "butter seed" or "Vitellaria paradoxa") and
pd<20030630 and (waste or waste or "lees" or "by-product" or "by product" or spent)
20  KARITE
72263 "AFRICAN"
2117 "AFRICANS"
73167 "AFRICAN"
        ("AFRICAN" OR "AFRICANS")
4676 "BUTTER"
169  "BUTTERS"
4724 "BUTTER"
        ("BUTTER" OR "BUTTERS")
0  "AFRICAN BUTTER"
        ("AFRICAN" (W) "BUTTER")
0  SHETOULOU
255 "SHEA"
1  "SHEAS"
256 "SHEA"
        ("SHEA" OR "SHEAS")
4676 "BUTTER"
169  "BUTTERS"
4724 "BUTTER"
        ("BUTTER" OR "BUTTERS")
48  "SHEA BUTTER"
        ("SHEA" (W) "BUTTER")

```

255 "SHEA"  
   1 "SHEAS"  
 256 "SHEA"  
       ("SHEA" OR "SHEAS")  
 94779 "TREE"  
 74655 "TREES"  
 137988 "TREE"  
       ("TREE" OR "TREES")  
   21 "SHEA TREE"  
       ("SHEA" (W) "TREE")  
   0 GHARITTI  
   39 "BUTYROSPERMUM"  
   33 "PARKII"  
   24 "BUTYROSPERMUM PARKII"  
       ("BUTYROSPERMUM" (W) "PARKII")  
 4676 "BUTTER"  
 169 "BUTTERS"  
 4724 "BUTTER"  
       ("BUTTER" OR "BUTTERS")  
 129425 "SEED"  
 78959 "SEEDS"  
 165153 "SEED"  
       ("SEED" OR "SEEDS")  
   4 "BUTTER SEED"  
       ("BUTTER" (W) "SEED")  
 469 "VITELLARIA"  
   1 "VITELLARIAS"  
 469 "VITELLARIA"  
       ("VITELLARIA" OR "VITELLARIAS")  
 1438 "PARADOXA"  
   64 "VITELLARIA PARADOXA"  
       ("VITELLARIA" (W) "PARADOXA")  
 13683345 PD<20030630  
       (PD<20030630)  
 107185 WASTE  
 11075 WASTES  
 110110 WASTE  
       (WASTE OR WASTES)  
 107185 WASTE  
 11075 WASTES  
 110110 WASTE  
       (WASTE OR WASTES)  
   320 "LEES"  
   42 "BY"  
   8 "BIES"  
   6 "BYES"  
   56 "BY"  
       ("BY" OR "BIES" OR "BYES")  
 252603 "PRODUCT"  
 267102 "PRODUCTS"  
 471385 "PRODUCT"  
       ("PRODUCT" OR "PRODUCTS")  
   0 "BY-PRODUCT"  
       ("BY" (W) "PRODUCT")  
   42 "BY"  
   8 "BIES"  
   6 "BYES"  
   56 "BY"  
       ("BY" OR "BIES" OR "BYES")  
 252603 "PRODUCT"

267102 "PRODUCTS"  
 471385 "PRODUCT"  
     ("PRODUCT" OR "PRODUCTS")  
     0 "BY PRODUCT"  
       ("BY"(W)"PRODUCT")  
 22646 SPENT  
     3 SPENTS  
 22648 SPENT  
     (SPENT OR SPENTS)  
 L2           2 (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR  
               "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM PARKII" OR "BUTTER  
               SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND (WASTE OR  
               WASTE OR "LEES" OR "BY-PRODUCT" OR "BY PRODUCT" OR SPENT)

=> d l2 1-2 ti

L2   ANSWER 1 OF 2   BIOSIS   COPYRIGHT (c) 2006 The Thomson Corporation   on STN  
 TI   Ecology of elephant population (Loxodonta africana) in the Cynegetic Zone  
      of Djona (Benin).

L2   ANSWER 2 OF 2   BIOSIS   COPYRIGHT (c) 2006 The Thomson Corporation   on STN  
 TI   Binding of iron, zinc, and lead ions from aqueous solution by shea  
      butter (Butyrospermum Parkii) seed husks.

=> d l2 2 ibib

L2   ANSWER 2 OF 2   BIOSIS   COPYRIGHT (c) 2006 The Thomson Corporation   on STN  
 ACCESSION NUMBER:   1994:169101   BIOSIS   Full-text  
 DOCUMENT NUMBER:    PREV199497182101  
 TITLE:               Binding of iron, zinc, and lead ions from aqueous solution  
                       by shea butter (Butyrospermum Parkii)  
                       seed husks.  
 AUTHOR(S):           Eromosele, I. C. [Reprint author]; Otitolaye, O. O.  
 CORPORATE SOURCE:    Dep. Chem., Fed. Univ. Technol., Yola, Adamawa State,  
                       Nigeria  
 SOURCE:              Bulletin of Environmental Contamination and Toxicology, (  
                       1994) Vol. 52, No. 4, pp. 530-537.  
                       CODEN: BECTA6. ISSN: 0007-4861.  
 DOCUMENT TYPE:       Article  
 LANGUAGE:            English  
 ENTRY DATE:           Entered STN: 8 Apr 1994  
                       Last Updated on STN: 10 Apr 1994

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	4.39	4.60

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FILE COVERS 1907 - 19 Jul 2006 VOL 145 ISS 4  
FILE LAST UPDATED: 18 Jul 2006 (20060718/ED)

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=> s 11

```
136 KARITE
  2 KARITES
136 KARITE
    (KARITE OR KARITES)
23274 "AFRICAN"
  846 "AFRICANS"
23656 "AFRICAN"
    ("AFRICAN" OR "AFRICANS")
20525 "BUTTER"
  826 "BUTTERS"
20611 "BUTTER"
    ("BUTTER" OR "BUTTERS")
  2 "AFRICAN BUTTER"
    ("AFRICAN" (W) "BUTTER")
  0 SHETOULOU
  848 "SHEA"
20525 "BUTTER"
  826 "BUTTERS"
20611 "BUTTER"
    ("BUTTER" OR "BUTTERS")
  560 "SHEA BUTTER"
    ("SHEA" (W) "BUTTER")
  848 "SHEA"
56707 "TREE"
42220 "TREES"
82830 "TREE"
    ("TREE" OR "TREES")
  65 "SHEA TREE"
    ("SHEA" (W) "TREE")
  0 GHARITTI
  90 "BUTYROSPERMUM"
  76 "PARKII"
  65 "BUTYROSPERMUM PARKII"
    ("BUTYROSPERMUM" (W) "PARKII")
20525 "BUTTER"
  826 "BUTTERS"
20611 "BUTTER"
    ("BUTTER" OR "BUTTERS")
139461 "SEED"
  93150 "SEEDS"
185184 "SEED"
    ("SEED" OR "SEEDS")
  12 "BUTTER SEED"
    ("BUTTER" (W) "SEED")
  86 "VITELLARIA"
```

```

1 "VITELLARIAS"
87 "VITELLARIA"
  ("VITELLARIA" OR "VITELLARIAS")
635 "PARADOXA"
33 "VITELLARIA PARADOXA"
  ("VITELLARIA" (W) "PARADOXA")
23664304 PD<20030630
  (PD<20030630)
15915 SAPONIN
14422 SAPONINS
20253 SAPONIN
  (SAPONIN OR SAPONINS)
L3      10 (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR
          "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM PARKII" OR "BUTTER
          SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND SAPONIN

=> s 13 and 12
136 KARITE
2 KARITES
136 KARITE
  (KARITE OR KARITES)
23274 "AFRICAN"
846 "AFRICANS"
23656 "AFRICAN"
  ("AFRICAN" OR "AFRICANS")
20525 "BUTTER"
826 "BUTTERS"
20611 "BUTTER"
  ("BUTTER" OR "BUTTERS")
2 "AFRICAN BUTTER"
  ("AFRICAN" (W) "BUTTER")
0 SHETOULOU
848 "SHEA"
20525 "BUTTER"
826 "BUTTERS"
20611 "BUTTER"
  ("BUTTER" OR "BUTTERS")
560 "SHEA BUTTER"
  ("SHEA" (W) "BUTTER")
848 "SHEA"
56707 "TREE"
42220 "TREES"
82830 "TREE"
  ("TREE" OR "TREES")
65 "SHEA TREE"
  ("SHEA" (W) "TREE")
0 GHARITTI
90 "BUTYROSPERMUM"
76 "PARKII"
65 "BUTYROSPERMUM PARKII"
  ("BUTYROSPERMUM" (W) "PARKII")
20525 "BUTTER"
826 "BUTTERS"
20611 "BUTTER"
  ("BUTTER" OR "BUTTERS")
139461 "SEED"
93150 "SEEDS"
185184 "SEED"
  ("SEED" OR "SEEDS")
12 "BUTTER SEED"

```

```

      ("BUTTER" (W) "SEED")
86 "VITELLARIA"
  1 "VITELLARIAS"
87 "VITELLARIA"
      ("VITELLARIA" OR "VITELLARIAS")
635 "PARADOXA"
  33 "VITELLARIA PARADOXA"
      ("VITELLARIA" (W) "PARADOXA")
23664304 PD<20030630
      (PD<20030630)
377328 WASTE
184251 WASTES
423198 WASTE
      (WASTE OR WASTES)
377328 WASTE
184251 WASTES
423198 WASTE
      (WASTE OR WASTES)
1932 "LEES"
  1 "LEESES"
1933 "LEES"
      ("LEES" OR "LEESES")
  0 "BY"
  15 "BIES"
  7 "BYES"
  22 "BY"
1150897 "PRODUCT"
1356634 "PRODUCTS"
2184182 "PRODUCT"
      ("PRODUCT" OR "PRODUCTS")
  0 "BY-PRODUCT"
      ("BY" (W) "PRODUCT")
  0 "BY"
  15 "BIES"
  7 "BYES"
  22 "BY"
1150897 "PRODUCT"
1356634 "PRODUCTS"
2184182 "PRODUCT"
      ("PRODUCT" OR "PRODUCTS")
  0 "BY PRODUCT"
      ("BY" (W) "PRODUCT")
60655 SPENT
  7 SPENTS
60659 SPENT
      (SPENT OR SPENTS)

```

L4            0 L3 AND L2

=> d 13 1-10 ti

L3    ANSWER 1 OF 10    CAPLUS    COPYRIGHT 2006 ACS on STN  
TI    Antimicrobial properties and phytochemical constituents of the leaves of  
African mistletoe (*Tapinanthus dodoneifolius* (DC) Danser) (Loranthaceae):  
an ethnomedicinal plant of Hausaland, Northern Nigeria

L3    ANSWER 2 OF 10    CAPLUS    COPYRIGHT 2006 ACS on STN  
TI    Value of sheanut cake as a dietary ingredient for broiler chickens

L3    ANSWER 3 OF 10    CAPLUS    COPYRIGHT 2006 ACS on STN  
TI    Biochemical and histological alterations in the liver of the broiler after



ingestion of vegetable saponins and effects of dietary supplementation with adsorbents or methyl donor

L3 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Toxicological assessment of native and industrial fermented sheabuttercake in nutrition of broilers

L3 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The determination of the structure of the tetracyclic triterpene alcohol, basseol. II. The dehydrogenation of basseol and of basseol-triterpenes of the  $\beta$ -amyrenol group

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The contents of the shea nut, the seed of *Butyrospermum parkii*

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Some African oil seeds

L3 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Two principles occurring in the fruit of the argan tree: the oil and glucoside

L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The fat-containing seeds of dumori and djave

L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The Seed of *Mimusops djave*

=> d l3 6-9 and 10 ibib  
'AND' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB  
ALL ----- BIB, AB, IND, RE  
APPS ----- AI, PRAI  
BIB ----- AN, plus Bibliographic Data and PI table (default)  
CAN ----- List of CA abstract numbers without answer numbers  
CBIB ----- AN, plus Compressed Bibliographic Data  
CLASS ----- IPC, NCL, ECLA, FTERM  
DALL ----- ALL, delimited (end of each field identified)  
DMAX ----- MAX, delimited for post-processing  
FAM ----- AN, PI and PRAI in table, plus Patent Family data  
FBIB ----- AN, BIB, plus Patent FAM  
IND ----- Indexing data  
IPC ----- International Patent Classifications  
MAX ----- ALL, plus Patent FAM, RE  
PATS ----- PI, SO  
SAM ----- CC, SX, TI, ST, IT  
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
SCAN must be entered on the same line as the DISPLAY,  
e.g., D SCAN or DISPLAY SCAN)  
STD ----- BIB, CLASS

IABS ----- ABS, indented with text labels  
IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IMAX ----- MAX, indented with text labels

ISTD ----- STD, indented with text labels  
 OBIB ----- AN, plus Bibliographic Data (original)  
 OIBIB ----- OBIB, indented with text labels  
  
 SBIB ----- BIB, no citations  
 SIBIB ----- IBIB, no citations  
  
 HIT ----- Fields containing hit terms  
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
                   containing hit terms  
 HITRN ----- HIT RN and its text modification  
 HITSTR ----- HIT RN, its text modification, its CA index name, and  
                   its structure diagram  
 HITSEQ ----- HIT RN, its text modification, its CA index name, its  
                   structure diagram, plus NTE and SEQ fields  
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
                   its structure diagram  
 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
                   structure diagram, plus NTE and SEQ fields  
 KWIC ----- Hit term plus 20 words on either side  
 OCC ----- Number of occurrence of hit term and field in which it occurs

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L3    ANSWER 6 OF 10    CAPLUS    COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER:        1943:24552    CAPLUS    Full-text  
 DOCUMENT NUMBER:        37:24552  
 ORIGINAL REFERENCE NO.: 37:3961i,3962a-b  
 TITLE:                    The contents of the shea nut, the seed of  
                             Butyrospermum parkii  
 AUTHOR(S):                Bauer, K. H.; Moll, H.  
 SOURCE:                    Arch. Pharm. (1942), 280, 37-45  
                             From: Chem. Zentr. 1942, I, 3120.  
 DOCUMENT TYPE:            Journal  
 LANGUAGE:                 Unavailable

L3    ANSWER 7 OF 10    CAPLUS    COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER:        1936:4760    CAPLUS    Full-text  
 DOCUMENT NUMBER:        30:4760  
 ORIGINAL REFERENCE NO.: 30:633g-i,634a-i,635a-i,636a  
 TITLE:                    Some African oil seeds  
 AUTHOR(S):                Anon.  
 SOURCE:                    Bulletin of the Imperial Institute, London (   
                             1935), 33, 271-93  
                             CODEN: BUIIAD; ISSN: 0366-4279  
 DOCUMENT TYPE:            Journal  
 LANGUAGE:                 Unavailable

L3    ANSWER 8 OF 10    CAPLUS    COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1918:9923 CAPLUS Full-text  
 DOCUMENT NUMBER: 12:9923  
 ORIGINAL REFERENCE NO.: 12:1686a-g  
 TITLE: Two principles occurring in the fruit of the argan  
 tree: the oil and glucoside  
 AUTHOR(S): Moreau, L.; Leulier, A.  
 SOURCE: Bulletin des Sciences Pharmacologiques (1918  
 ), 25(Pt. 2), 81-6  
 CODEN: BSPHAV; ISSN: 0366-3493  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1914:24086 CAPLUS Full-text  
 DOCUMENT NUMBER: 8:24086  
 ORIGINAL REFERENCE NO.: 8:3508e-g  
 TITLE: The fat-containing seeds of dumori and djave  
 AUTHOR(S): Perrot, E.  
 SOURCE: Bulletin des Sciences Pharmacologiques (1914  
 ), 21, 173-6  
 CODEN: BSPHAV; ISSN: 0366-3493  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1911:3241 CAPLUS Full-text  
 DOCUMENT NUMBER: 5:3241  
 ORIGINAL REFERENCE NO.: 5:594g-h  
 TITLE: The Seed of Mimusops djave  
 AUTHOR(S): Fickendey, E.  
 SOURCE: Seifensieder-Zeitung (1911), 37, 165,193-4  
 CODEN: SSZTAW; ISSN: 0371-3296  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

=> s 12

136 KARITE  
 2 KARITES  
 136 KARITE  
 (KARITE OR KARITES)  
 23274 "AFRICAN"  
 846 "AFRICANS"  
 23656 "AFRICAN"  
 ("AFRICAN" OR "AFRICANS")  
 20525 "BUTTER"  
 826 "BUTTERS"  
 20611 "BUTTER"  
 ("BUTTER" OR "BUTTERS")  
 2 "AFRICAN BUTTER"  
 ("AFRICAN" (W) "BUTTER")  
 0 SHETOULOU  
 848 "SHEA"  
 20525 "BUTTER"  
 826 "BUTTERS"  
 20611 "BUTTER"  
 ("BUTTER" OR "BUTTERS")  
 560 "SHEA BUTTER"  
 ("SHEA" (W) "BUTTER")  
 848 "SHEA"

56707 "TREE"  
 42220 "TREES"  
 82830 "TREE"  
     ("TREE" OR "TREES")  
 65 "SHEA TREE"  
     ("SHEA" (W) "TREE")  
 0 GHARITTI  
 90 "BUTYROSPERMUM"  
 76 "PARKII"  
 65 "BUTYROSPERMUM PARKII"  
     ("BUTYROSPERMUM" (W) "PARKII")  
 20525 "BUTTER"  
 826 "BUTTERS"  
 20611 "BUTTER"  
     ("BUTTER" OR "BUTTERS")  
 139461 "SEED"  
 93150 "SEEDS"  
 185184 "SEED"  
     ("SEED" OR "SEEDS")  
 12 "BUTTER SEED"  
     ("BUTTER" (W) "SEED")  
 86 "VITELLARIA"  
 1 "VITELLARIAS"  
 87 "VITELLARIA"  
     ("VITELLARIA" OR "VITELLARIAS")  
 635 "PARADOXA"  
 33 "VITELLARIA PARADOXA"  
     ("VITELLARIA" (W) "PARADOXA")  
 23664304 PD<20030630  
     (PD<20030630)  
 377328 WASTE  
 184251 WASTES  
 423198 WASTE  
     (WASTE OR WASTES)  
 377328 WASTE  
 184251 WASTES  
 423198 WASTE  
     (WASTE OR WASTES)  
 1932 "LEES"  
 1 "LEESES"  
 1933 "LEES"  
     ("LEES" OR "LEESES")  
 0 "BY"  
 15 "BIES"  
 7 "BYES"  
 22 "BY"  
 1150897 "PRODUCT"  
 1356634 "PRODUCTS"  
 2184182 "PRODUCT"  
     ("PRODUCT" OR "PRODUCTS")  
 0 "BY-PRODUCT"  
     ("BY" (W) "PRODUCT")  
 0 "BY"  
 15 "BIES"  
 7 "BYES"  
 22 "BY"  
 1150897 "PRODUCT"  
 1356634 "PRODUCTS"  
 2184182 "PRODUCT"  
     ("PRODUCT" OR "PRODUCTS")

```

0 "BY PRODUCT"
  ("BY" (W) "PRODUCT")
60655 SPENT
  7 SPENTS
60659 SPENT
  (SPENT OR SPENTS)
L5      3 (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR
          "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM PARKII" OR "BUTTER
          SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND (WASTE OR
          WASTE OR "LEES" OR "BY-PRODUCT" OR "BY PRODUCT" OR SPENT)

```

=> d 15 1-3 ti

```

L5      ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
TI      10 years experience with Co-firing straw and coal as main fuels together
        with different types of biomasses in a CFB boiler in Grena/Denmark

L5      ANSWER 2 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
TI      Sorption of iron and zinc ions from non-aqueous solution by shea
        butter (Butyrospermum parkii) seed husks

L5      ANSWER 3 OF 3  CAPLUS  COPYRIGHT 2006 ACS on STN
TI      A comparative study of anti-locust baits, with special reference to base
        materials

```

=> d hist

```

        (FILE 'HOME' ENTERED AT 15:44:16 ON 19 JUL 2006)

        FILE 'BIOSIS' ENTERED AT 15:44:25 ON 19 JUL 2006
L1      1 S (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR
L2      2 S (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR

        FILE 'CAPLUS' ENTERED AT 15:46:15 ON 19 JUL 2006
L3      10 S L1
L4      0 S L3 AND L2
L5      3 S L2

```

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	138.58	143.18

STN INTERNATIONAL LOGOFF AT 15:48:27 ON 19 JUL 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAALC1654

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

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NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006  
NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered  
NEWS 5 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records  
NEWS 6 MAY 11 KOREAPAT updates resume  
NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced  
NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and  
USPATFULL/USPAT2  
NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS  
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in  
INPADOC  
NEWS 11 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and  
and display fields  
NEWS 12 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL  
NEWS 13 JUL 11 CHEMSAFE reloaded and enhanced  
NEWS 14 JUL 14 FSTA enhanced with Japanese patents  
NEWS 15 JUL 19 Coverage of Research Disclosure reinstated in DWPI  
  
NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.  
  
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NEWS LOGIN Welcome Banner and News Items  
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NEWS X25 X.25 communication option no longer available

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FILE 'HOME' ENTERED AT 08:23:05 ON 21 JUL 2006

=> file BIOSIS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'BIOSIS' ENTERED AT 08:23:18 ON 21 JUL 2006

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FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 19 July 2006 (20060719/ED)

=> s ("Shea nut" or karite or "African butter" or shetoulou or "shea butter" or

"shea tree" or gharitti or "Butyrospermum" or "butter seed" or "Vitellaria paradoxa") and pd<20030630 and saponin

255 "SHEA"  
1 "SHEAS"  
256 "SHEA"  
("SHEA" OR "SHEAS")

6534 "NUT"  
3316 "NUTS"  
8650 "NUT"  
("NUT" OR "NUTS")

14 "SHEA NUT"  
("SHEA" (W) "NUT")

20 KARITE

72443 "AFRICAN"  
2119 "AFRICANS"  
73348 "AFRICAN"  
("AFRICAN" OR "AFRICANS")

4682 "BUTTER"  
170 "BUTTERS"  
4730 "BUTTER"  
("BUTTER" OR "BUTTERS")

0 "AFRICAN BUTTER"  
("AFRICAN" (W) "BUTTER")

0 SHETOULOU

255 "SHEA"  
1 "SHEAS"  
256 "SHEA"  
("SHEA" OR "SHEAS")

4682 "BUTTER"  
170 "BUTTERS"  
4730 "BUTTER"  
("BUTTER" OR "BUTTERS")

48 "SHEA BUTTER"  
("SHEA" (W) "BUTTER")

255 "SHEA"  
1 "SHEAS"  
256 "SHEA"  
("SHEA" OR "SHEAS")

94904 "TREE"  
74721 "TREES"  
138146 "TREE"  
("TREE" OR "TREES")

21 "SHEA TREE"  
("SHEA" (W) "TREE")

0 GHARITTI

39 "BUTYROSPERMUM"

4682 "BUTTER"  
170 "BUTTERS"  
4730 "BUTTER"  
("BUTTER" OR "BUTTERS")

129565 "SEED"  
79030 "SEEDS"  
165314 "SEED"  
("SEED" OR "SEEDS")

4 "BUTTER SEED"  
("BUTTER" (W) "SEED")

470 "VITELLARIA"  
1 "VITELLARIAS"  
470 "VITELLARIA"  
("VITELLARIA" OR "VITELLARIAS")

1438 "PARADOXA"  
 64 "VITELLARIA PARADOXA"  
 ("VITELLARIA" (W) "PARADOXA")  
 13683429 PD<20030630  
 (PD<20030630)  
 5804 SAPONIN  
 4243 SAPONINS  
 8589 SAPONIN  
 (SAPONIN OR SAPONINS)  
 L1 1 ("SHEA NUT" OR KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA  
 BUTTER" OR "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM" OR "BUTTER  
 SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND SAPONIN

=> d l1 ti

L1 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
 TI Biochemical and histological alterations in the liver of the broiler after  
 ingestion of vegetable saponins and effects of dietary  
 supplementation with adsorbents or methyl donor.

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.87	1.08

FILE 'CAPLUS' ENTERED AT 08:24:02 ON 21 JUL 2006  
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FILE COVERS 1907 - 21 Jul 2006 VOL 145 ISS 4  
 FILE LAST UPDATED: 19 Jul 2006 (20060719/ED)

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<http://www.cas.org/infopolicy.html>

=> s l1

848 "SHEA"  
 10668 "NUT"  
 5790 "NUTS"  
 14258 "NUT"  
 ("NUT" OR "NUTS")  
 65 "SHEA NUT"  
 ("SHEA" (W) "NUT")  
 136 KARITE  
 2 KARITES



```

136 KARITE
    (KARITE OR KARITES)
23278 "AFRICAN"
    846 "AFRICANS"
23660 "AFRICAN"
    ("AFRICAN" OR "AFRICANS")
20531 "BUTTER"
    826 "BUTTERS"
20617 "BUTTER"
    ("BUTTER" OR "BUTTERS")
    2 "AFRICAN BUTTER"
        ("AFRICAN" (W) "BUTTER")
    0 SHETOULOU
    848 "SHEA"
20531 "BUTTER"
    826 "BUTTERS"
20617 "BUTTER"
    ("BUTTER" OR "BUTTERS")
    560 "SHEA BUTTER"
        ("SHEA" (W) "BUTTER")
    848 "SHEA"
56735 "TREE"
42227 "TREES"
82861 "TREE"
    ("TREE" OR "TREES")
    65 "SHEA TREE"
        ("SHEA" (W) "TREE")
    0 GHARITTI
    90 "BUTYROSPERMUM"
20531 "BUTTER"
    826 "BUTTERS"
20617 "BUTTER"
    ("BUTTER" OR "BUTTERS")
139516 "SEED"
93170 "SEEDS"
185251 "SEED"
    ("SEED" OR "SEEDS")
    12 "BUTTER SEED"
        ("BUTTER" (W) "SEED")
    86 "VITELLARIA"
    1 "VITELLARIAS"
    87 "VITELLARIA"
        ("VITELLARIA" OR "VITELLARIAS")
    635 "PARADOXA"
    33 "VITELLARIA PARADOXA"
        ("VITELLARIA" (W) "PARADOXA")
23664304 PD<20030630
    (PD<20030630)
15921 SAPONIN
14424 SAPONINS
20259 SAPONIN
    (SAPONIN OR SAPONINS)
L2      11 ("SHEA NUT" OR KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA
        BUTTER" OR "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM" OR "BUTTER
        SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND SAPONIN

```

=> d 1-11 ti

L2 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Antimicrobial properties and phytochemical constituents of the leaves of

African mistletoe (*Tapinanthus dodoneifolius* (DC) Danser) (Loranthaceae):  
an ethnomedicinal plant of Hausaland, Northern Nigeria

L2 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Phytochemical and antimicrobial studies on *Butyrospermum paradoxum*

L2 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Value of sheanut cake as a dietary ingredient for broiler chickens

L2 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Biochemical and histological alterations in the liver of the broiler after ingestion of vegetable saponins and effects of dietary supplementation with adsorbents or methyl donor

L2 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Toxicological assessment of native and industrial fermented sheabuttercake in nutrition of broilers

L2 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The determination of the structure of the tetracyclic triterpene alcohol, basseol. II. The dehydrogenation of basseol and of bassenol-triterpenes of the  $\beta$ -amyrenol group

L2 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The contents of the shea nut, the seed of *Butyrospermum parkii*

L2 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Some African oil seeds

L2 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Two principles occurring in the fruit of the argan tree: the oil and glucoside

L2 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The fat-containing seeds of dumori and djave

L2 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The Seed of *Mimusops djave*

=> d hist

(FILE 'HOME' ENTERED AT 08:23:05 ON 21 JUL 2006)

FILE 'BIOSIS' ENTERED AT 08:23:18 ON 21 JUL 2006

L1 1 S ("SHEA NUT" OR KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SH

FILE 'CAPLUS' ENTERED AT 08:24:02 ON 21 JUL 2006

L2 11 S L1

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	39.65	40.73

STN INTERNATIONAL LOGOFF AT 08:24:57 ON 21 JUL 2006

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LOGINID:SSPTAALC1654

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	2	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS	3	MAR 16	CASREACT coverage extended
NEWS	4	MAR 20	MARPAT now updated daily
NEWS	5	MAR 22	LWPI reloaded
NEWS	6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	10	APR 30	CA/CAPplus enhanced with 1870-1889 U.S. patent records
NEWS	11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	12	MAY 01	New CAS web site launched
NEWS	13	MAY 08	CA/CAPplus Indian patent publication number format defined
NEWS	14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	17	MAY 21	CA/CAPplus enhanced with additional kind codes for German patents
NEWS	18	MAY 22	CA/CAPplus enhanced with IPC reclassification in Japanese patents
NEWS	19	JUN 27	CA/CAPplus enhanced with pre-1967 CAS Registry Numbers
NEWS	20	JUN 29	STN Viewer now available
NEWS	21	JUN 29	STN Express, Version 8.2, now available
NEWS	22	JUL 02	LEMBASE coverage updated
NEWS	23	JUL 02	LMEDLINE coverage updated
NEWS	24	JUL 02	SCISEARCH enhanced with complete author names
NEWS	25	JUL 02	CHEMCATS accession numbers revised
NEWS	26	JUL 02	CA/CAPplus enhanced with utility model patents from China
NEWS EXPRESS	29	JUNE 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.
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NEWS LOGIN			Welcome Banner and News Items
NEWS IPC8			For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 13:10:27 ON 09 JUL 2007

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 13:10:43 ON 09 JUL 2007

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FILE LAST UPDATED: 8 Jul 2007 (20070708/ED)

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=> s (butyrospermum or shea) and saponin and pd<20020628

99 BUTYROSPERMUM  
973 SHEA  
16936 SAPONIN  
15772 SAPONINS  
21795 SAPONIN  
(SAPONIN OR SAPONINS)  
22702044 PD<20020628  
(PD<20020628)

L1 8 (BUTYROSPERMUM OR SHEA) AND SAPONIN AND PD<20020628

=> d l1 1-8 ti

L1 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

TI Phytochemical and antimicrobial studies on Butyrospermum paradoxum

L1 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

TI Value of sheanut cake as a dietary ingredient for broiler chickens

L1 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

TI Biochemical and histological alterations in the liver of the broiler after ingestion of vegetable saponins and effects of dietary supplementation with adsorbents or methyl donor

L1 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Toxicological assessment of native and industrial fermented sheabuttercake in nutrition of broilers

L1 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The determination of the structure of the tetracyclic triterpene alcohol, basseol. II. The dehydrogenation of basseol and of bassenol-triterpenes of the  $\beta$ -amyrenol group

L1 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The contents of the shea nut, the seed of *Butyrospermum parkii*

L1 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Some African oil seeds

L1 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The Seed of *Mimusops djave*

=> d 11 5-8 ibib

L1 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1951:29613 CAPLUS Full-text  
 DOCUMENT NUMBER: 45:29613  
 ORIGINAL REFERENCE NO.: 45:5129g-i,5130a-i,5131a-i,5132a-b  
 TITLE: The determination of the structure of the tetracyclic triterpene alcohol, basseol. II. The dehydrogenation of basseol and of bassenol-triterpenes of the  $\beta$ -amyrenol group  
 AUTHOR(S): Coelho, Fernando Pinto  
 CORPORATE SOURCE: Univ. Coimbra, Port.  
 SOURCE: Rev. faculdade cienc. Univ., Coimbra (1949), 18, 71-140  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L1 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1943:24552 CAPLUS Full-text  
 DOCUMENT NUMBER: 37:24552  
 ORIGINAL REFERENCE NO.: 37:3961i,3962a-b  
 TITLE: The contents of the shea nut, the seed of *Butyrospermum parkii*  
 AUTHOR(S): Bauer, K. H.; Moll, H.  
 SOURCE: Arch. Pharm. (1942), 280, 37-45  
 From: Chem. Zentr. 1942, I, 3120.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L1 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1936:4760 CAPLUS Full-text  
 DOCUMENT NUMBER: 30:4760  
 ORIGINAL REFERENCE NO.: 30:633g-i,634a-i,635a-i,636a  
 TITLE: Some African oil seeds  
 AUTHOR(S): Anon.  
 SOURCE: Bulletin of the Imperial Institute, London (1935), 33, 271-93  
 CODEN: BUIIAD; ISSN: 0366-4279  
 DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

L1 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1911:3241 CAPLUS Full-text  
DOCUMENT NUMBER: 5:3241  
ORIGINAL REFERENCE NO.: 5:594g-h  
TITLE: The Seed of Mimusops djave  
AUTHOR(S): Fickendey, E.  
SOURCE: Seifensieder-Zeitung (1911), 37, 165,193-4  
CODEN: SSZTAW; ISSN: 0371-3296  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

=> file biosis  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

	SINCE FILE ENTRY	TOTAL SESSION
	16.89	17.10

FILE 'BIOSIS' ENTERED AT 13:12:41 ON 09 JUL 2007  
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FILE COVERS 1926 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 4 July 2007 (20070704/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926  
through 1968. These records have been re-indexed to match current  
BIOSIS indexing.

=> s l1  
53 BUTYROSPERMUM  
301 SHEA  
1 SHEAS  
302 SHEA  
(SHEA OR SHEAS)  
7212 SAPONIN  
4946 SAPONINS  
10363 SAPONIN  
(SAPONIN OR SAPONINS)  
14978589 PD<20020628  
(PD<20020628)  
L2 0 (BUTYROSPERMUM OR SHEA) AND SAPONIN AND PD<20020628

=> dhist full  
DHIST IS NOT A RECOGNIZED COMMAND  
The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> d hist full

(FILE 'HOME' ENTERED AT 13:10:27 ON 09 JUL 2007)

FILE 'CAPLUS' ENTERED AT 13:10:43 ON 09 JUL 2007

L1 8 SEA ABB=ON PLU=ON (BUTYROSPERMUM OR SHEA) AND SAPONIN AND  
PD<20020628  
D L1 1-8 TI

D L1 5-8 IBIB

L2 FILE 'BIOSIS' ENTERED AT 13:12:41 ON 09 JUL 2007  
0 SEA ABB=ON PLU=ON (BUTYROSPERMUM OR SHEA) AND SAPONIN AND  
PD<20020628

FILE HOME

FILE CAPLUS

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FILE LAST UPDATED: 8 Jul 2007 (20070708/ED)

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FILE BIOSIS  
FILE COVERS 1926 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 4 July 2007 (20070704/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926 through 1968. These records have been re-indexed to match current BIOSIS indexing.

=> log y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.89	17.99

STN INTERNATIONAL LOGOFF AT 13:13:15 ON 09 JUL 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAALC1654

PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2 JUL 02 LMEDLINE coverage updated  
NEWS 3 JUL 02 SCISEARCH enhanced with complete author names  
NEWS 4 JUL 02 CHEMCATS accession numbers revised  
NEWS 5 JUL 02 CA/CAPplus enhanced with utility model patents from China  
NEWS 6 JUL 16 CAPplus enhanced with French and German abstracts  
NEWS 7 JUL 18 CA/CAPplus patent coverage enhanced  
NEWS 8 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification  
NEWS 9 JUL 30 USGENE now available on STN  
NEWS 10 AUG 06 CAS REGISTRY enhanced with new experimental property tags  
NEWS 11 AUG 06 BEILSTEIN updated with new compounds  
NEWS 12 AUG 06 FSTA enhanced with new thesaurus edition  
NEWS 13 AUG 13 CA/CAPplus enhanced with additional kind codes for granted patents  
NEWS 14 AUG 20 CA/CAPplus enhanced with CAS indexing in pre-1907 records  
NEWS 15 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB  
NEWS 16 AUG 27 USPATOLD now available on STN  
NEWS 17 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data  
NEWS 18 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index  
NEWS 19 SEP 13 FORIS renamed to SOFIS  
NEWS 20 SEP 13 INPADOCDB enhanced with monthly SDI frequency  
NEWS 21 SEP 17 CA/CAPplus enhanced with printed CA page images from 1967-1998  
NEWS 22 SEP 17 CAPplus coverage extended to include traditional medicine patents  
NEWS 23 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements  
NEWS 24 OCT 02 CA/CAPplus enhanced with pre-1907 records from Chemisches Zentralblatt  
  
NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.  
  
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NEWS IPC8 For general information regarding STN implementation of IPC 8

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FILE 'HOME' ENTERED AT 13:31:01 ON 03 OCT 2007

=> file biosis  
COST IN U.S. DOLLARS

SINCE FILE TOTAL



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FULL ESTIMATED COST	0.21	0.21

FILE 'BIOSIS' ENTERED AT 13:31:17 ON 03 OCT 2007  
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 CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
 FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 26 September 2007 (20070926/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926 through 1968. These records have been re-indexed to match current BIOSIS indexing.

```
=> s (((Bassia or butryospermum or vitellaria or pentadosmis) and (paradox or
paradoxa or paradoxum or parkii or butyracea)) or (shea or African or
Africa)(s)(tree or butter or nut) or sheanut or sheatree) and @pd<"20010630"
NUMERIC VALUE NOT VALID '"20010630"'
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Numeric values may contain 1-8 significant figures. If range notation is used, both the beginning and the end of the range must be specified, e.g., '250-300/MW'. Expressions such as '250-/MW' are not allowed. To search for values above or below a given number, use the >, =>, <, or <= operators, e.g., 'MW => 250'. Text terms cannot be used in numeric expressions. If you specify a unit, it must be dimensionally correct for that field code. To see the unit designations for field codes in the current file, enter "DISPLAY UNIT ALL" at an arrow prompt (=>).

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=> s (((Bassia or butryospermum or vitellaria or pentadosmis) and (paradox or
paradoxa or paradoxum or parkii or butyracea)) or (shea or African or
Africa)(s)(tree or butter or nut) or sheanut or sheatree) and pd<"20010630"
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```
253 BASSIA
2 BASSIAS
255 BASSIA
    (BASSIA OR BASSIAS)
1 BUTRYOSPERMUM
604 VITELLARIA
1 VITELLARIAS
604 VITELLARIA
    (VITELLARIA OR VITELLARIAS)
0 PENTADOSMIS
5537 PARADOX
425 PARADOXES
5899 PARADOX
    (PARADOX OR PARADOXES)
1936 PARADOXA
316 PARADOXUM
47 PARKII
91 BUTYRACEA
304 SHEA
1 SHEAS
305 SHEA
    (SHEA OR SHEAS)
91439 AFRICAN
2748 AFRICANS
92667 AFRICAN
    (AFRICAN OR AFRICANS)
141068 AFRICA
```

```

    26 AFRICAS
141088 AFRICA
    (AFRICA OR AFRICAS)
121465 TREE
106861 TREES
186896 TREE
    (TREE OR TREES)
    7976 BUTTER
    344 BUTTERS
    8055 BUTTER
    (BUTTER OR BUTTERS)
    8530 NUT
    4580 NUTS
11532 NUT
    (NUT OR NUTS)
    1847 (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR BUTTER OR NUT)
    18 SHEANUT
    1 SHEANUTS
    18 SHEANUT
    (SHEANUT OR SHEANUTS)
    0 SHEATREE
14419937 PD<"20010630"
    (PD<20010630)
L1    1166 (((BASSIA OR BUTRYOSPERMUM OR VITELLARIA OR PENTADOSMIS) AND
    (PARADOX OR PARADOXA OR PARADOXUM OR PARKII OR BUTYRACEA)) OR
    (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR BUTTER OR NUT) OR SHEANUT
    OR SHEATREE) AND PD<"20010630"

=> s (((Bassia or butryospermum or vitellaria or pentadosmis) (s) (paradox or
paradoxa or paradoxum or parkii or butyracea)) or (shea or African or
Africa) (s) (tree or butter or nut) or sheanut or sheatree) and pd<"20010630"
    253 BASSIA
    2 BASSIAS
    255 BASSIA
    (BASSIA OR BASSIAS)
    1 BUTRYOSPERMUM
    604 VITELLARIA
    1 VITELLARIAS
    604 VITELLARIA
    (VITELLARIA OR VITELLARIAS)
    0 PENTADOSMIS
    5537 PARADOX
    425 PARADOXES
    5899 PARADOX
    (PARADOX OR PARADOXES)
    1936 PARADOXA
    316 PARADOXUM
    47 PARKII
    91 BUTYRACEA
    83 (BASSIA OR BUTRYOSPERMUM OR VITELLARIA OR PENTADOSMIS) (S) (PARADO
    X OR PARADOXA OR PARADOXUM OR PARKII OR BUTYRACEA)
    304 SHEA
    1 SHEAS
    305 SHEA
    (SHEA OR SHEAS)
    91439 AFRICAN
    2748 AFRICANS
    92667 AFRICAN
    (AFRICAN OR AFRICANS)
141068 AFRICA

```

26 AFRICAS  
 141088 AFRICA  
     (AFRICA OR AFRICAS)  
 121465 TREE  
 106861 TREES  
 186896 TREE  
     (TREE OR TREES)  
 7976 BUTTER  
 344 BUTTERS  
 8055 BUTTER  
     (BUTTER OR BUTTERS)  
 8530 NUT  
 4580 NUTS  
 11532 NUT  
     (NUT OR NUTS)  
 1847 (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR BUTTER OR NUT)  
 18 SHEANUT  
 1 SHEANUTS  
 18 SHEANUT  
     (SHEANUT OR SHEANUTS)  
 0 SHEATREE  
 14419937 PD<"20010630"  
     (PD<20010630)  
 L2 1166 (((BASSIA OR BUTRYOSPERMUM OR VITELLARIA OR PENTADOSMIS) (S) (PARADOX OR PARADOXA OR PARADOXUM OR PARKII OR BUTYRACEA)) OR (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR BUTTER OR NUT) OR SHEANUT OR SHEATREE) AND PD<"20010630"

=> s l1 and (saponin or saponins or "bassic acid" or parkeol)

7272 SAPONIN  
 4987 SAPONINS  
 10434 SAPONIN  
     (SAPONIN OR SAPONINS)  
 4987 SAPONINS  
 13 "BASSIC"  
 1494679 "ACID"  
 411424 "ACIDS"  
 1674132 "ACID"  
     ("ACID" OR "ACIDS")  
 11 "BASSIC ACID"  
     ("BASSIC" (W) "ACID")  
 30 PARKEOL

L3 7 L1 AND (SAPONIN OR SAPONINS OR "BASSIC ACID" OR PARKEOL)

=> d l3 1-7 ti

L3 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI Value of sheanut cake as a dietary ingredient for broiler chickens.

L3 ANSWER 2 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI Influence of foliage from African multipurpose trees on activity of rumen protozoa and bacteria.

L3 ANSWER 3 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI Biochemical and histological alterations in the liver of the broiler after ingestion of vegetable saponins and effects of dietary supplementation with adsorbents or methyl donor.

L3 ANSWER 4 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI WOOD FLUORESCENCE OF INDIGENOUS SOUTH AFRICAN TREES.  
 L3 ANSWER 5 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI WOOD FLUORESCENCE OF INDIGENOUS SOUTH AFRICAN TREES.  
 L3 ANSWER 6 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI CHARACTERIZATION OF TRI TERPENE ALCOHOLS OF SEED OILS FROM SOME SPECIES OF  
 THEACEAE PHYTOLACCACEAE AND SAPOTACEAE.  
 L3 ANSWER 7 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI THE NONGLYCERIDE SAPONIFIABLES OF SHEA BUTTER.

=> d l3 6 and 7 ibib  
 'AND' IS NOT A VALID FORMAT FOR FILE 'BIOSIS'

The following are valid formats:

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ABS ----- AB  
 ALL ----- AN, DN, TI, AU, CS, PI, SO, DT, FS, LA, OS, ED, AB,  
                   NCL, CC, IT (CT, ST), GT, ORGN, RN, CN, GEN  
 BIB ----- AN, DN, TI, AU, CS, PI, SO, DT, FS, LA, OS, ED  
 CBIB ----- AN, compressed bibliographic information  
 DALL ----- ALL, delimited for post-processing  
 IABS ----- ABS, with text label  
 IALL ----- ALL, indented with text labels  
 IBIB ----- BIB, indented with text labels  
 IIND ----- IND, indented with text labels  
 IND ----- NCL, CC, IT (CT, ST), GT, ORGN, RN, CN, GEN  
 HIT ----- all fields containing hit search terms  
 HITIND ----- IND  
 KWIC ----- Hit terms plus 20 words on either side  
 OCC ----- number of occurrences of hit terms and fields  
                   in which they occur

Hit terms will be highlighted in all available fields except MY and PY.

To display a particular field or fields, enter the display field  
 codes. For a list of display field codes, enter 'HELP DFIELDS'  
 at an arrow prompt (=>). Examples of formats include: 'BIB';  
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 specified Accession Number.  
 ENTER DISPLAY FORMAT (BIB):ibib

L3 ANSWER 6 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 ACCESSION NUMBER: 1980:274902 BIOSIS Full-text  
 DOCUMENT NUMBER: PREV198070067398; BA70:67398  
 TITLE: CHARACTERIZATION OF TRI TERPENE ALCOHOLS OF SEED OILS FROM  
           SOME SPECIES OF THEACEAE PHYTOLACCACEAE AND SAPOTACEAE.  
 AUTHOR(S): ITOH T [Reprint author]; UETSUKI T; TAMURA T; MATSUMOTO T  
 CORPORATE SOURCE: COLL SCI TECHNOL, NIHON UNIV, 1-8 KANDA SURUGADAI, CHIYODA,  
                   TOKYO 101, JPN

SOURCE: Lipids, (1980) Vol. 15, No. 6, pp. 407-411.  
CODEN: LPDSAP. ISSN: 0024-4201.  
DOCUMENT TYPE: Article  
FILE SEGMENT: BA  
LANGUAGE: ENGLISH

L3 ANSWER 7 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
ACCESSION NUMBER: 1978:176927 BIOSIS Full-text  
DOCUMENT NUMBER: PREV197865063927; BA65:63927  
TITLE: THE NONGLYCERIDE SAPONIFIABLES OF SHEA  
BUTTER.  
AUTHOR(S): PEERS K E [Reprint author]  
CORPORATE SOURCE: CHEM DIV, AGRIC RES COUNC FOOD RES INST, COLNEY LANE,  
NORWICH NR4 7UA, ENGL, UK  
SOURCE: Journal of the Science of Food and Agriculture, (  
1977) Vol. 28, No. 11, pp. 1000-1009.  
CODEN: JSFAAE. ISSN: 0022-5142.  
DOCUMENT TYPE: Article  
FILE SEGMENT: BA  
LANGUAGE: ENGLISH

=> file caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
8.15	8.36

FULL ESTIMATED COST

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FILE LAST UPDATED: 2 Oct 2007 (20071002/ED)

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=> s 13

THE ESTIMATED SEARCH COST FOR FILE 'CAPLUS' IS 46.23 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

173 BASSIA  
0 BUTRYOSPERMUM  
102 VITELLARIA  
1 VITELLARIAS  
103 VITELLARIA  
(VITELLARIA OR VITELLARIAS)

0 PENTADOSMIS  
 5251 PARADOX  
 622 PARADOXES  
 5738 PARADOX  
     (PARADOX OR PARADOXES)  
 688 PARADOXA  
     50 PARADOXUM  
     92 PARKII  
 112 BUTYRACEA  
 1016 SHEA  
 25676 AFRICAN  
     933 AFRICANS  
 26096 AFRICAN  
     (AFRICAN OR AFRICANS)  
 23721 AFRICA  
     3 AFRICAS  
 23723 AFRICA  
     (AFRICA OR AFRICAS)  
 63486 TREE  
 45454 TREES  
 91391 TREE  
     (TREE OR TREES)  
 22681 BUTTER  
     935 BUTTERS  
 22783 BUTTER  
     (BUTTER OR BUTTERS)  
 13057 NUT  
     6595 NUTS  
 17123 NUT  
     (NUT OR NUTS)  
     1469 (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR BUTTER OR NUT)  
     11 SHEANUT  
     0 SHEATREE  
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 17237 SAPONIN  
 16122 SAPONINS  
 22234 SAPONIN  
     (SAPONIN OR SAPONINS)  
 16122 SAPONINS  
     26 "BASSIC"  
 4453496 "ACID"  
 1594632 "ACIDS"  
 4956675 "ACID"  
     ("ACID" OR "ACIDS")  
     26 "BASSIC ACID"  
         ("BASSIC" (W) "ACID")  
     71 PARKEOL  
         1 PARKEOLS  
     71 PARKEOL  
         (PARKEOL OR PARKEOLS)  
 L4           21 L1 AND (SAPONIN OR SAPONINS OR "BASSIC ACID" OR PARKEOL)

=> d 14 1-21 ti

L4   ANSWER 1 OF 21   CAPLUS   COPYRIGHT 2007 ACS on STN  
 TI   Pharmaceutical composition containing extracts of Butyrospermum parkii and  
       the use as medicament or dietary supplement  
  
 L4   ANSWER 2 OF 21   CAPLUS   COPYRIGHT 2007 ACS on STN

TI Value of sheanut cake as a dietary ingredient for broiler chickens  
  
 L4 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Influence of foliage from African multipurpose trees on activity of rumen protozoa and bacteria  
  
 L4 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Biological activity of saponins from two *Dracaena* species  
  
 L4 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Biochemical and histological alterations in the liver of the broiler after ingestion of vegetable saponins and effects of dietary supplementation with adsorbents or methyl donor  
  
 L4 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Toxicological assessment of native and industrial fermented sheabuttercake in nutrition of broilers  
  
 L4 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Biologically active saponins from two *dracaena* species.  
  
 L4 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Triterpenic saponins from *nauclea diderrichii*.  
  
 L4 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Search for molluscicidal and antifungal saponins from tropical plants.  
  
 L4 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Comparison of lipid compositions in Shea butter and *Pentadesma* butter  
  
 L4 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Characterization of triterpene alcohols of seed oils from some species of Theaceae, Phytolaccaceae and Sapotaceae  
  
 L4 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The flavonoids of the leaves of *Holarrhena floribunda*; isolation of a flavonoid identified as isoquercitroside  
  
 L4 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The chemistry of the triterpenes. XVI. The action of hydrogen chloride on butyrospermol  
  
 L4 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The determination of the structure of the tetracyclic triterpene alcohol, basseol. II. The dehydrogenation of basseol and of bassenol-triterpenes of the  $\beta$ -amyrenol group  
  
 L4 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Constituents of shea  
  
 L4 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The contents of the shea nut, the seed of *Butyrospermum parkii*  
  
 L4 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Unsaponifiable constituents of shea butter

L4 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Sapogenins. IX. Occurrence and constitution of bassic  
acid

L4 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Sapogenins. V. Bassic acid

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Some African oil seeds

L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
TI The Seed of Mimusops djave

=> d 1, 4, 5, 7-11, 15-21 ibib

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2001:50499 CAPLUS Full-text  
DOCUMENT NUMBER: 134:120921  
TITLE: Pharmaceutical composition containing extracts of  
Butyrospermum parkii and the use as medicament or  
dietary supplement  
INVENTOR(S): Weidner, Morten Sloth  
PATENT ASSIGNEE(S): Astion Development Aps, Den.  
SOURCE: PCT Int. Appl., 39 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001003712	A1	20010118	WO 2000-DK383	20000710 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,				
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,				
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,				
YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,				
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2378396	A1	20010118	CA 2000-2378396	20000710 <--
EP 1200106	A1	20020502	EP 2000-943697	20000710
EP 1200106	B1	20030507		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003504340	T	20030204	JP 2001-508991	20000710
AT 239490	T	20030515	AT 2000-943697	20000710
PT 1200106	T	20030930	PT 2000-943697	20000710
EP 1354595	A1	20031022	EP 2003-76393	20000710
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, FI, CY				
NZ 517077	A	20031128	NZ 2000-517077	20000710
ES 2198324	T3	20040201	ES 2000-943697	20000710
AU 784718	B2	20060601	AU 2000-58066	20000710
HK 1046502	A1	20030919	HK 2002-107996	20021102
US 2005031709	A1	20050210	US 2004-861884	20040607
US 2007003645	A1	20070104	US 2006-519002	20060912



PRIORITY APPLN. INFO.: DK 1999-1003 A 19990709  
 DK 1999-1323 A 19990916  
 US 1999-154651P P 19990920  
 DK 2000-434 A 20000316  
 US 2000-190919P P 20000321  
 EP 2000-943697 A3 20000710  
 US 2000-613468 A3 20000710  
 WO 2000-DK383 W 20000710

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:255839 CAPLUS Full-text  
 DOCUMENT NUMBER: 126:311799  
 TITLE: Biological activity of saponins from two  
 Dracaena species  
 AUTHOR(S): Okunji, C. O.; Iwu, M. M.; Jackson, J. E.; Tally, J.  
 D.  
 CORPORATE SOURCE: Division of Experimental Therapeutics, Walter Reed  
 Army Institute of Research, Washington, DC,  
 20307-5100, USA  
 SOURCE: Advances in Experimental Medicine and Biology (  
 1996), 404(Saponins Used in Traditional and  
 Modern Medicine), 415-428  
 CODEN: AEMBAP; ISSN: 0065-2598  
 PUBLISHER: Plenum  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L4 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:150965 CAPLUS Full-text  
 DOCUMENT NUMBER: 126:316899  
 TITLE: Biochemical and histological alterations in the liver  
 of the broiler after ingestion of vegetable  
 saponins and effects of dietary  
 supplementation with adsorbents or methyl donor  
 AUTHOR(S): Annongu, A. A.; Ter Meulen, U.; Atteh, J. O.; Chinnah,  
 T.  
 CORPORATE SOURCE: Institut Tierphysiologie Tierernaehrung, Universitaet  
 Goettingen, Goettingen, D-37077, Germany  
 SOURCE: Archiv fuer Gefluegelkunde (1996), 60(6),  
 267-272  
 CODEN: AGEFAB; ISSN: 0003-9098  
 PUBLISHER: Ulmer  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L4 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1995:919220 CAPLUS Full-text  
 TITLE: Biologically active saponins from two  
 dracaena species.  
 AUTHOR(S): Okunji, C. O.; Jackson, J. E.; Tally, J. D.; Iwu, M.  
 M.  
 CORPORATE SOURCE: Division Experimental Therapeutics, Walter Reed Army  
 Institute Research, Washington, DC, 20307-5100, USA  
 SOURCE: Book of Abstracts, 210th ACS National Meeting,  
 Chicago, IL, August 20-24 (1995), Issue Pt.  
 1, AGFD-235. American Chemical Society: Washington,  
 D. C.  
 CODEN: 61XGAC

DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L4 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1995:919119 CAPLUS Full-text  
TITLE: Triterpenic saponins from nauclea  
diderrichii.  
AUTHOR(S): Ollivier, E.; Gasquet, M.; Delnas, F.; Balansard, G.  
CORPORATE SOURCE: Pharmacognosy, Faculty Pharmacy, Marseille, 13385, Fr.  
SOURCE: Book of Abstracts, 210th ACS National Meeting,  
Chicago, IL, August 20-24 (1995), Issue Pt.  
1, AGFD-124. American Chemical Society: Washington,  
D. C.  
CODEN: 61XGAC  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L4 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1995:919081 CAPLUS Full-text  
TITLE: Search for molluscicidal and antifungal  
saponins from tropical plants.  
AUTHOR(S): Hostettmann, K.  
CORPORATE SOURCE: Institut de Pharmacognosie et Phytochimie, Universite  
de Lausanne, Lausanne, CH-1015, Switz.  
SOURCE: Book of Abstracts, 210th ACS National Meeting,  
Chicago, IL, August 20-24 (1995), Issue Pt.  
1, AGFD-086. American Chemical Society: Washington,  
D. C.  
CODEN: 61XGAC  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L4 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1995:797935 CAPLUS Full-text  
DOCUMENT NUMBER: 123:284113  
TITLE: Comparison of lipid compositions in Shea  
butter and Pentadesma butter  
AUTHOR(S): Dencausse, Laurent; Ntsourankoua, Herve; Artaud,  
Jacques; Clamou, Jean-Luc  
CORPORATE SOURCE: Laboratoire d'Analyse et Valorisation des  
Biomolecules, IUT, Marseille, 13388/13, Fr.  
SOURCE: Oleagineux, Corps Gras, Lipides (1995),  
2(2), 143-7  
CODEN: OCLOEX; ISSN: 1258-8210  
PUBLISHER: Libbey Eurotext  
DOCUMENT TYPE: Journal  
LANGUAGE: French

L4 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1980:441613 CAPLUS Full-text  
DOCUMENT NUMBER: 93:41613  
TITLE: Characterization of triterpene alcohols of seed oils  
from some species of Theaceae, Phytolaccaceae and  
Sapotaceae  
AUTHOR(S): Itoh, Toshihiro; Uetsuki, Toshimitsu; Tamura,  
Toshitake; Matsumoto, Taro  
CORPORATE SOURCE: Coll. Sci. Technol., Nihon Univ., Tokyo, 101, Japan  
SOURCE: Lipids (1980), 15(6), 407-11  
CODEN: LPDSAP; ISSN: 0024-4201  
DOCUMENT TYPE: Journal

LANGUAGE: English

L4 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1950:11456 CAPLUS Full-text  
DOCUMENT NUMBER: 44:11456  
ORIGINAL REFERENCE NO.: 44:2259d  
TITLE: Constituents of shea  
AUTHOR(S): Pradain, J.  
SOURCE: Ann. nutrition et aliment. (1949), 3, 459-62  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1943:24552 CAPLUS Full-text  
DOCUMENT NUMBER: 37:24552  
ORIGINAL REFERENCE NO.: 37:3961i,3962a-b  
TITLE: The contents of the shea nut, the  
seed of Butyrospermum parkii  
AUTHOR(S): Bauer, K. H.; Moll, H.  
SOURCE: Arch. Pharm. (1942), 280, 37-45  
From: Chem. Zentr. 1942, I, 3120.  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1941:14797 CAPLUS Full-text  
DOCUMENT NUMBER: 35:14797  
ORIGINAL REFERENCE NO.: 35:2350i  
TITLE: Unsaponifiable constituents of shea  
butter  
AUTHOR(S): Bauer, K. H.; Moll, H.  
SOURCE: Fette und Seifen (1939), 46, 560-3  
CODEN: FTSEAK; ISSN: 0367-3278  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1940:43305 CAPLUS Full-text  
DOCUMENT NUMBER: 34:43305  
ORIGINAL REFERENCE NO.: 34:6636i,6637a-i,6638a-b  
TITLE: Sapogenins. IX. Occurrence and constitution of  
bassic acid  
AUTHOR(S): Heywood, B. Jason; Kon, George A. K.  
SOURCE: Journal of the Chemical Society (1940)  
713-30  
CODEN: JCSOA9; ISSN: 0368-1769  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1939:54210 CAPLUS Full-text  
DOCUMENT NUMBER: 33:54210  
ORIGINAL REFERENCE NO.: 33:7809a-h  
TITLE: Sapogenins. V. Bassic acid  
AUTHOR(S): Heywood, B. Jason; Kon, George A. R.; Ware, Lancelot  
L.  
SOURCE: Journal of the Chemical Society (1939)  
1124-9  
CODEN: JCSOA9; ISSN: 0368-1769  
DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1936:4760 CAPLUS Full-text  
 DOCUMENT NUMBER: 30:4760  
 ORIGINAL REFERENCE NO.: 30:633g-i,634a-i,635a-i,636a  
 TITLE: Some African oil seeds  
 AUTHOR(S): Anon.  
 SOURCE: Bulletin of the Imperial Institute, London (1935), 33, 271-93  
 CODEN: BUIIAD; ISSN: 0366-4279  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1911:3241 CAPLUS Full-text  
 DOCUMENT NUMBER: 5:3241  
 ORIGINAL REFERENCE NO.: 5:594g-h  
 TITLE: The Seed of Mimusops djave  
 AUTHOR(S): Fickendey, E.  
 SOURCE: Seifensieder-Zeitung (1911), 37, 165,193-4  
 CODEN: SSZTAW; ISSN: 0371-3296  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

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FILE 'BIOSIS' ENTERED AT 13:31:17 ON 03 OCT 2007

L1 1166 SEA ABB=ON PLU=ON (((BASSIA OR BUTRYOSPERMUM OR VITELLARIA OR PENTADOSMIS) AND (PARADOX OR PARADOXA OR PARADOXUM OR PARKII OR BUTYRACEA)) OR (SHEA OR AFRICAN OR AFRICA)(S)(TREE OR BUTTER OR NUT) OR SHEANUT OR SHEATREE) AND PD<"20010630"  
 L2 1166 SEA ABB=ON PLU=ON (((BASSIA OR BUTRYOSPERMUM OR VITELLARIA OR PENTADOSMIS)(S)(PARADOX OR PARADOXA OR PARADOXUM OR PARKII OR BUTYRACEA)) OR (SHEA OR AFRICAN OR AFRICA)(S)(TREE OR BUTTER OR NUT) OR SHEANUT OR SHEATREE) AND PD<"20010630"  
 L3 7 SEA ABB=ON PLU=ON L1 AND (SAPONIN OR SAPONINS OR "BASSIC ACID" OR PARKEOL)  
 D L3 1-7 TI  
 D L3 6 AND 7 IBIB

FILE 'CAPLUS' ENTERED AT 13:34:28 ON 03 OCT 2007

L4 21 SEA ABB=ON PLU=ON L1 AND (SAPONIN OR SAPONINS OR "BASSIC ACID" OR PARKEOL)  
 D L4 1-21 TI  
 D 1, 4, 5, 7-11, 15-21 IBIB

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NEWS	7	AUG 27	USPATOLD now available on STN
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NEWS 11 SEP 13 INPADOCDB enhanced with monthly SDI frequency

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NEWS 13 SEP 17 CAPplus coverage extended to include traditional medicine patents

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NEWS 16 OCT 19 BEILSTEIN updated with new compounds

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NEWS 19 NOV 30 ICSD reloaded with enhancements

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NEWS 27 DEC 17 CA/CAPplus enhanced with new custom IPC display formats

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NEWS 30 JAN 16 CAS patent coverage enhanced to include exemplified prophetic substances

NEWS 31 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats

NEWS 32 JAN 28 MARPAT searching enhanced

NEWS 33 JAN 28 USGENE timeliness enhanced

NEWS 34 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment

NEWS 35 JAN 28 MEDLINE and LEMEDLINE reloaded with enhancements

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FULL ESTIMATED COST	0.21	0.21

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sheanut or Vitellaria or "shea butter" or bambuk or galam or mowrah) and (saponin  
or saponins or "bassic acid") and pd<20020628

55 BUTYROSPERMUM  
2418 SAPOTACEAE  
8055 "BUTTER"  
350 "BUTTERS"  
8134 "BUTTER"  
("BUTTER" OR "BUTTERS")  
123867 "TREE"  
108587 "TREES"  
190167 "TREE"  
("TREE" OR "TREES")  
21 "BUTTER TREE"  
("BUTTER" (W) "TREE")  
257 "BASSIA"  
2 "BASSIAS"  
259 "BASSIA"  
("BASSIA" OR "BASSIAS")  
47 "PARKII"  
1 "BASSIA PARKII"  
("BASSIA" (W) "PARKII")  
313 SHEA  
1 SHEAS  
314 SHEA  
(SHEA OR SHEAS)  
18 SHEANUT  
1 SHEANUTS  
18 SHEANUT  
(SHEANUT OR SHEANUTS)  
617 VITELLARIA  
1 VITELLARIAS  
617 VITELLARIA  
(VITELLARIA OR VITELLARIAS)  
313 "SHEA"  
1 "SHEAS"  
314 "SHEA"  
("SHEA" OR "SHEAS")  
8055 "BUTTER"  
350 "BUTTERS"  
8134 "BUTTER"  
("BUTTER" OR "BUTTERS")  
73 "SHEA BUTTER"  
("SHEA" (W) "BUTTER")  
1 BAMBUK  
1 GALAM

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1 GALAMS
2 GALAM
  (GALAM OR GALAMS)
17 MOWRAH
7387 SAPONIN
5077 SAPONINS
10582 SAPONIN
  (SAPONIN OR SAPONINS)
5077 SAPONINS
13 "BASSIC"
1512843 "ACID"
416088 "ACIDS"
1693653 "ACID"
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11 "BASSIC ACID"
  ("BASSIC" (W) "ACID")
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L1 61 (BUTYROSPERMUM OR SAPOTACEAE OR "BUTTER TREE" OR "BASSIA PARKII"
  OR SHEA OR SHEANUT OR VITELLARIA OR "SHEA BUTTER" OR BAMBUK OR
  GALAM OR MOWRAH) AND (SAPONIN OR SAPONINS OR "BASSIC ACID") AND
  PD<20020628

=> s (Butyrospermum or Sapotaceae or "Butter Tree" or "bassia parkii" or Shea or
sheanut or Vitellaria or "shea butter" or bambuk or galam) and (saponin or saponins
or "bassic acid") and pd<20020628
55 BUTYROSPERMUM
2418 SAPOTACEAE
8055 "BUTTER"
350 "BUTTERS"
8134 "BUTTER"
  ("BUTTER" OR "BUTTERS")
123867 "TREE"
108587 "TREES"
190167 "TREE"
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21 "BUTTER TREE"
  ("BUTTER" (W) "TREE")
257 "BASSIA"
2 "BASSIAS"
259 "BASSIA"
  ("BASSIA" OR "BASSIAS")
47 "PARKII"
1 "BASSIA PARKII"
  ("BASSIA" (W) "PARKII")
313 SHEA
1 SHEAS
314 SHEA
  (SHEA OR SHEAS)
18 SHEANUT
1 SHEANUTS
18 SHEANUT
  (SHEANUT OR SHEANUTS)
617 VITELLARIA
1 VITELLARIAS
617 VITELLARIA
  (VITELLARIA OR VITELLARIAS)
313 "SHEA"
1 "SHEAS"
314 "SHEA"

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("SHEA" OR "SHEAS")  
 8055 "BUTTER"  
 350 "BUTTERS"  
 8134 "BUTTER"  
 ("BUTTER" OR "BUTTERS")  
 73 "SHEA BUTTER"  
 ("SHEA" (W) "BUTTER")  
 1 BAMBUK  
 1 GALAM  
 1 GALAMS  
 2 GALAM  
 (GALAM OR GALAMS)  
 7387 SAPONIN  
 5077 SAPONINS  
 10582 SAPONIN  
 (SAPONIN OR SAPONINS)  
 5077 SAPONINS  
 13 "BASSIC"  
 1512843 "ACID"  
 416088 "ACIDS"  
 1693653 "ACID"  
 ("ACID" OR "ACIDS")  
 11 "BASSIC ACID"  
 ("BASSIC" (W) "ACID")  
 14978600 PD<20020628  
 (PD<20020628)  
 L2 61 (BUTYROSPERMUM OR SAPOTACEAE OR "BUTTER TREE" OR "BASSIA PARKII"  
 OR SHEA OR SHEANUT OR VITELLARIA OR "SHEA BUTTER" OR BAMBUK OR  
 GALAM) AND (SAPONIN OR SAPONINS OR "BASSIC ACID") AND PD<2002062  
 8

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 TI Unnurtured and untapped super sweet nonsacchariferous plant species in  
 India.  
  
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 TI Analgesic and antiinflammatory activity of *Argania spinosa*  
 saponins.  
  
 L2 ANSWER 4 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Acute and chronic toxicity of saponins of *Argania spinosa*.  
  
 L2 ANSWER 5 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Value of sheanut cake as a dietary ingredient for broiler  
 chickens.  
  
 L2 ANSWER 6 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Biochemical and histological alterations in the liver of the broiler after  
 ingestion of vegetable saponins and effects of dietary  
 supplementation with adsorbents or methyl donor.  
  
 L2 ANSWER 7 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Triterpenoid saponins from *Mimusops elengi*.  
  
 L2 ANSWER 8 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN

TI Saponins from three species of Mimusops.  
 L2 ANSWER 9 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Triterpenoid saponins of Mimusops elengi.  
 L2 ANSWER 10 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 TI Toxicological evaluation of mowrah (*Madhuca latifolia* Macbride) seed meal.  
 L2 ANSWER 11 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 TI Novel triterpenoid saponins from Mimusops elengi.  
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 TI Bioactive saponins from Mimusops elengi.  
 L2 ANSWER 13 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 TI Triterpenoid saponins from the root of *Sideroxylon foetidissimum*.  
 L2 ANSWER 14 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 TI Triterpenoid saponins from *Madhuca butyracea*.  
 L2 ANSWER 15 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 TI A new triterpenoid saponin from Mimusops hexandra.  
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 TI Triterpenoid saponins from the root of *Sideroxylon cubense*.  
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 TI Cytotoxic activity of a new saponin from *Sideroxylon cubense*.  
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RATS.

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SAPONINS ISOLATED FROM PLATYCODON-GRANDIFLORUM AND MI  
SAPONINS FROM MADHUCA-LONGIFOLIA BASED ON CARBON-13 NMR  
SPECTROSCOPIC AND PROTON NMR SPECTROSCOPIC EVIDENCE TOTAL STRUCTURES OF  
THE SAPONINS.

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SAPONIN C A BIS DESMOSIDE OF PROTO BASSIC-ACID  
FROM THE SEED KERNELS OF MADHUCA-LONGIFOLIA.
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TI SPERMICIDAL POTENTIAL OF SAPONINS ISOLATED FROM INDIAN MEDICINAL  
PLANTS.
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TI TRI TERPENOIDS OF MIMUSOPS-LITTORALIS.
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TI BIOLOGICAL ACTIVE PRINCIPLES OF THE CRUDE DRUGS PART 2 ANTI ULCEROGENIC  
AND ANTI INFLAMMATORY ACTIONS OF THE CRUDE DRUGS CONTAINED SAPONIN  
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TI SAPONIN AND SAPOGENOL PART 12 MI SAPONIN A AND MI  
SAPONIN B 2 MAJOR BIS DESMOSIDES FROM THE SEED KERNELS OF  
MADHUCA-LONGIFOLIA.

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TI SAPONIN AND SAPOGENOL PART 8 PHOTOCHEMICAL CLEAVAGE OF GLYCOSIDE  
LINKAGE IN SAPONIN PHOTOLYSIS OF SOME SAPONINS AND  
THEIR STRUCTURAL FEATURES.

L2 ANSWER 50 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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TI SOIL BACTERIAL HYDROLYSIS LEADING TO GENUINE AGLYCONES PART 7 STRUCTURE OF  
A GENUINE SAPOGENOL PROTO-BASIC-ACID AND A  
PROSAPOGENOL OF SEED KERNELS OF MADHUCA-LONGIFOLIA.

L2 ANSWER 51 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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TI TRI TERPENOIDS OF ACHRAS-SAPOTA SAPOTACEAE.

L2 ANSWER 52 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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TI SAPONINS OF THE SEEDS OF BASSIA-LATIFOLIA-D.

L2 ANSWER 53 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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TI TERMITE RESISTANCE OF OLD WOOD USED IN TEMPLES FROM THE MAYAN AREA DUE TO  
SAPONINS.

L2 ANSWER 54 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
STN

TI ANTI INFLAMMATORY ACTIVITY OF SAPONINS AND OTHER NATURAL  
PRODUCTS.

L2 ANSWER 55 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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TI CONSTITUENTS OF MIMUSOPS-MANILKARA-D LEAVES AND SAPONINS OF  
MIMUSOPS-D SEED KERNELS.

L2 ANSWER 56 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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TI Detection of milligram amounts of mowrin (A toxic saponin of  
mahua seeds) in feeds.

L2 ANSWER 57 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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TI Mimusops hexandra. I. Constituents of fruit and seed.

L2 ANSWER 58 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
STN

TI On the microscopy of Tengawang and its distinction from real Illipe.  
Original Title: Zur Mikroskopie von Tengawang und deren Unterscheidung  
von echter Illipe.

L2 ANSWER 59 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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TI About saponins and sapogenins.

L2 ANSWER 60 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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TI Über das Vorkommen und die Verteilung von Saponinen in pflanzlichen  
Drogen.

L2 ANSWER 61 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on

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II Au sujet de la toxicite du tourteau d'argan.

=> s (Butyrospermum or bassia or vitellaria)(s)(parkii or paradoxum or paradoxa) or "Butter Tree" or Shea or sheanut or "shea butter" or bambuk or galam) and (saponin or saponins or "bassic acid") and pd<20020628

UNMATCHED RIGHT PARENTHESIS 'GALAM) AND'

The number of right parentheses in a query must be equal to the number of left parentheses.

=> s ((Butyrospermum or bassia or vitellaria)(s)(parkii or paradoxum or paradoxa) or "Butter Tree" or Shea or sheanut or "shea butter" or bambuk or galam) and (saponin or saponins or "bassic acid") and pd<20020628

55 BUTYROSPERMUM  
257 BASSIA  
2 BASSIAS  
259 BASSIA  
(BASSIA OR BASSIAS)  
617 VITELLARIA  
1 VITELLARIAS  
617 VITELLARIA  
(VITELLARIA OR VITELLARIAS)  
47 PARKII  
321 PARADOXUM  
1969 PARADOXA  
136 (BUTYROSPERMUM OR BASSIA OR VITELLARIA) (S) (PARKII OR PARADOXUM  
OR PARADOXA)  
8055 "BUTTER"  
350 "BUTTERS"  
8134 "BUTTER"  
( "BUTTER" OR "BUTTERS" )  
123867 "TREE"  
108587 "TREES"  
190167 "TREE"  
( "TREE" OR "TREES" )  
21 "BUTTER TREE"  
( "BUTTER" (W) "TREE" )  
313 SHEA  
1 SHEAS  
314 SHEA  
(SHEA OR SHEAS)  
18 SHEANUT  
1 SHEANUTS  
18 SHEANUT  
(SHEANUT OR SHEANUTS)  
313 "SHEA"  
1 "SHEAS"  
314 "SHEA"  
( "SHEA" OR "SHEAS" )  
8055 "BUTTER"  
350 "BUTTERS"  
8134 "BUTTER"  
( "BUTTER" OR "BUTTERS" )  
73 "SHEA BUTTER"  
( "SHEA" (W) "BUTTER" )  
1 BAMBUK  
1 GALAM  
1 GALAMS  
2 GALAM

(GALAM OR GALAMS)  
 7387 SAPONIN  
 5077 SAPONINS  
 10582 SAPONIN  
 (SAPONIN OR SAPONINS)  
 5077 SAPONINS  
 13 "BASSIC"  
 1512843 "ACID"  
 416088 "ACIDS"  
 1693653 "ACID"  
 ("ACID" OR "ACIDS")  
 11 "BASSIC ACID"  
 ("BASSIC" (W) "ACID")  
 14978600 PD<20020628  
 (PD<20020628)  
 L3 2 ((BUTYROSPERMUM OR BASSIA OR VITELLARIA) (S) (PARKII OR PARADOXUM  
 OR PARADOXA) OR "BUTTER TREE" OR SHEA OR SHEANUT OR "SHEA BUTTER  
 " OR BAMBUK OR GALAM) AND (SAPONIN OR SAPONINS OR "BASSIC ACID")  
 AND PD<20020628

=> d 13 1-2 ti

L3 ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Value of sheanut cake as a dietary ingredient for broiler  
 chickens.  
 L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Biochemical and histological alterations in the liver of the broiler after  
 ingestion of vegetable saponins and effects of dietary  
 supplementation with adsorbents or methyl donor.

=> d 1-2 ibib

L3 ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 ACCESSION NUMBER: 1998:324744 BIOSIS Full-text  
 DOCUMENT NUMBER: PREV199800324744  
 TITLE: Value of sheanut cake as a dietary ingredient for  
 broiler chickens.  
 AUTHOR(S): Atuahene, C. C.; Donkoh, A. [Reprint author]; Asante, F.  
 CORPORATE SOURCE: Univ. Sci. Technol., Fac. Agric., Dep. Anim. Sci., Kumasi,  
 Ghana  
 SOURCE: Animal Feed Science and Technology, (May, 1998)  
 Vol. 72, No. 1-2, pp. 133-142. print.  
 CODEN: AFSTDH. ISSN: 0377-8401.  
 DOCUMENT TYPE: Article  
 LANGUAGE: English  
 ENTRY DATE: Entered STN: 22 Jul 1998  
 Last Updated on STN: 22 Jul 1998

L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 ACCESSION NUMBER: 1997:165877 BIOSIS Full-text  
 DOCUMENT NUMBER: PREV199799465080  
 TITLE: Biochemical and histological alterations in the liver of  
 the broiler after ingestion of vegetable saponins  
 and effects of dietary supplementation with adsorbents or  
 methyl donor.  
 AUTHOR(S): Annongu, A. A.; Ter Meulen, U. [Reprint author]; Atteh, J.  
 O.; Chinnah, T.  
 CORPORATE SOURCE: Inst. Tierphysiol. Tierernaehrung, Vellnerweg 6, D-37077

SOURCE: Goettingen, Germany  
Archiv fuer Geflugelkunde, (1996) Vol. 60, No.  
6, pp. 267-272.  
CODEN: AGEFAB. ISSN: 0003-9098.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 15 Apr 1997  
Last Updated on STN: 15 Apr 1997

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FILE LAST UPDATED: 27 Jan 2008 (20080127/ED)

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=> s 13

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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

104 BUTYROSPERMUM  
176 BASSIA  
109 VITELLARIA  
1 VITELLARIAS  
110 VITELLARIA  
(VITELLARIA OR VITELLARIAS)  
96 PARKII  
51 PARADOXUM  
709 PARADOXA  
137 (BUTYROSPERMUM OR BASSIA OR VITELLARIA) (S) (PARKII OR PARADOXUM  
OR PARADOXA)  
23247 "BUTTER"  
962 "BUTTERS"  
23352 "BUTTER"  
( "BUTTER" OR "BUTTERS" )  
65322 "TREE"  
46322 "TREES"  
93734 "TREE"



```

        ("TREE" OR "TREES")
    14 "BUTTER TREE"
        ("BUTTER" (W) "TREE")
1043 SHEA
    11 SHEANUT
1043 "SHEA"
23247 "BUTTER"
    962 "BUTTERS"
23352 "BUTTER"
        ("BUTTER" OR "BUTTERS")
    735 "SHEA BUTTER"
        ("SHEA" (W) "BUTTER")
    0 BAMBUK
    24 GALAM
17564 SAPONIN
16523 SAPONINS
22718 SAPONIN
        (SAPONIN OR SAPONINS)
16523 SAPONINS
    26 "BASSIC"
4518496 "ACID"
1611072 "ACIDS"
5025931 "ACID"
        ("ACID" OR "ACIDS")
    26 "BASSIC ACID"
        ("BASSIC" (W) "ACID")
22742520 PD<20020628
        (PD<20020628)
L4      12 ((BUTYROSPERMUM OR BASSIA OR VITELLARIA) (S) (PARKII OR PARADOXUM
        OR PARADOXA) OR "BUTTER TREE" OR SHEA OR SHEANUT OR "SHEA BUTTER
        " OR BAMBUK OR GALAM) AND (SAPONIN OR SAPONINS OR "BASSIC ACID")
        AND PD<20020628

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=> d 14 1-12 ti

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L4      ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI      Antimicrobial properties and phytochemical constituents of the leaves of
        African mistletoe (Tapinanthus dodoneifolius (DC) Danser) (Loranthaceae):
        an ethnomedicinal plant of Hausaland, Northern Nigeria

L4      ANSWER 2 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI      Phytochemical and antimicrobial studies on Butyrospermum
        paradoxum

L4      ANSWER 3 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI      Value of sheanut cake as a dietary ingredient for broiler
        chickens

L4      ANSWER 4 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI      Biochemical and histological alterations in the liver of the broiler after
        ingestion of vegetable saponins and effects of dietary
        supplementation with adsorbents or methyl donor

L4      ANSWER 5 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI      Toxicological assessment of native and industrial fermented sheabuttercake
        in nutrition of broilers

L4      ANSWER 6 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI      Isolation and properties of saponins from Madhuca butyracea
        seeds

```

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI The determination of the structure of the tetracyclic triterpene alcohol, basseol. II. The dehydrogenation of basseol and of bassenol-triterpenes of the  $\beta$ -amyrenol group

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI The contents of the shea nut, the seed of *Butyrospermum parkii*

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Sapogenins. IX. Occurrence and constitution of bassic acid

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Sapogenins. V. Bassic acid

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Some African oil seeds

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI The Seed of *Mimusops djave*

=> d 14 2, 6-12 ibib

L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2001:45819 CAPLUS Full-text  
 DOCUMENT NUMBER: 134:338213  
 TITLE: Phytochemical and antimicrobial studies on *Butyrospermum paradoxum*  
 AUTHOR(S): Ogunwande, I. A.; Bello, M. O.; Olawore, O. N.; Muili, K. A.  
 CORPORATE SOURCE: Department of Pure and Applied Chemistry, Ladoke Akintola University of Technology, Ogbomoso, 4000, Nigeria  
 SOURCE: Fitoterapia (2001), 72(1), 54-56  
 CODEN: FTRPAE; ISSN: 0367-326X  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1987:530911 CAPLUS Full-text  
 DOCUMENT NUMBER: 107:130911  
 TITLE: Isolation and properties of saponins from *Madhuca butyracea* seeds  
 AUTHOR(S): Lalitha, Thaire; Seshadri, Ramachandran; Venkataraman, Lalgudi V.  
 CORPORATE SOURCE: Cent. Food Technol. Res. Inst., Mysore, 570 013, India  
 SOURCE: Journal of Agricultural and Food Chemistry (1987), 35(5), 744-8  
 CODEN: JAFCAU; ISSN: 0021-8561  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1951:29613 CAPLUS Full-text

DOCUMENT NUMBER: 45:29613  
ORIGINAL REFERENCE NO.: 45:5129g-i,5130a-i,5131a-i,5132a-b  
TITLE: The determination of the structure of the tetracyclic  
triterpene alcohol, basseol. II. The dehydrogenation  
of basseol and of bassenol-triterpenes of the  
 $\beta$ -amyrenol group  
AUTHOR(S): Coelho, Fernando Pinto  
CORPORATE SOURCE: Univ. Coimbra, Port.  
SOURCE: Rev. faculdade cienc. Univ., Coimbra (1949),  
18, 71-140  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1943:24552 CAPLUS Full-text  
DOCUMENT NUMBER: 37:24552  
ORIGINAL REFERENCE NO.: 37:3961i,3962a-b  
TITLE: The contents of the shea nut, the seed of  
Butyrospermum parkii  
AUTHOR(S): Bauer, K. H.; Moll, H.  
SOURCE: Arch. Pharm. (1942), 280, 37-45  
From: Chem. Zentr. 1942, I, 3120.  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1940:43305 CAPLUS Full-text  
DOCUMENT NUMBER: 34:43305  
ORIGINAL REFERENCE NO.: 34:6636i,6637a-i,6638a-b  
TITLE: Sapogenins. IX. Occurrence and constitution of  
bassic acid  
AUTHOR(S): Heywood, B. Jason; Kon, George A. K.  
SOURCE: Journal of the Chemical Society (1940)  
713-30  
CODEN: JCSOA9; ISSN: 0368-1769  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1939:54210 CAPLUS Full-text  
DOCUMENT NUMBER: 33:54210  
ORIGINAL REFERENCE NO.: 33:7809a-h  
TITLE: Sapogenins. V. Basic acid  
AUTHOR(S): Heywood, B. Jason; Kon, George A. R.; Ware, Lancelot  
L.  
SOURCE: Journal of the Chemical Society (1939)  
1124-9  
CODEN: JCSOA9; ISSN: 0368-1769  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1936:4760 CAPLUS Full-text  
DOCUMENT NUMBER: 30:4760  
ORIGINAL REFERENCE NO.: 30:633g-i,634a-i,635a-i,636a  
TITLE: Some African oil seeds  
AUTHOR(S): Anon.  
SOURCE: Bulletin of the Imperial Institute, London (  
1935), 33, 271-93  
CODEN: BUIIAD; ISSN: 0366-4279

DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1911:3241 CAPLUS Full-text  
 DOCUMENT NUMBER: 5:3241  
 ORIGINAL REFERENCE NO.: 5:594g-h  
 TITLE: The Seed of Mimusops djave  
 AUTHOR(S): Fickendey, E.  
 SOURCE: Seifensieder-Zeitung (1911), 37, 165,193-4  
 CODEN: SSZTAW; ISSN: 0371-3296

DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

=> d hist full

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L1 61 SEA ABB=ON PLU=ON (BUTYROSPERMUM OR SAPOTACEAE OR "BUTTER  
 TREE" OR "BASSIA PARKII" OR SHEA OR SHEANUT OR VITELLARIA OR  
 "SHEA BUTTER" OR BAMBUK OR GALAM OR MOWRAH) AND (SAPONIN OR  
 SAPONINS OR "BASSIC ACID") AND PD<20020628

L2 61 SEA ABB=ON PLU=ON (BUTYROSPERMUM OR SAPOTACEAE OR "BUTTER  
 TREE" OR "BASSIA PARKII" OR SHEA OR SHEANUT OR VITELLARIA OR  
 "SHEA BUTTER" OR BAMBUK OR GALAM) AND (SAPONIN OR SAPONINS OR  
 "BASSIC ACID") AND PD<20020628  
 D L2 1-61 TI

L3 2 SEA ABB=ON PLU=ON ((BUTYROSPERMUM OR BASSIA OR VITELLARIA)(S)  
 (PARKII OR PARADOXUM OR PARADOXA) OR "BUTTER TREE" OR SHEA OR  
 SHEANUT OR "SHEA BUTTER" OR BAMBUK OR GALAM) AND (SAPONIN OR  
 SAPONINS OR "BASSIC ACID") AND PD<20020628  
 D L3 1-2 TI  
 D 1-2 IBIB

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L4 12 SEA ABB=ON PLU=ON ((BUTYROSPERMUM OR BASSIA OR VITELLARIA)(S)  
 (PARKII OR PARADOXUM OR PARADOXA) OR "BUTTER TREE" OR SHEA OR  
 SHEANUT OR "SHEA BUTTER" OR BAMBUK OR GALAM) AND (SAPONIN OR  
 SAPONINS OR "BASSIC ACID") AND PD<20020628  
 D L4 1-12 TI  
 D L4 2, 6-12 IBIB

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              information from the epoline Register
NEWS 4 JUL 28 IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 5 JUL 28 STN Viewer performance improved
NEWS 6 AUG 01 INPADOCDB and INPAFAMDB coverage enhanced
NEWS 7 AUG 13 CA/CAPplus enhanced with printed Chemical Abstracts
              page images from 1967-1998
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NEWS 9 AUG 15 CAPplus currency for Korean patents enhanced
NEWS 10 AUG 27 CAS definition of basic patents expanded to ensure
              comprehensive access to substance and sequence
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              to be discontinued
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              to accommodate supplemental CAS indexing of
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exemplified prophetic substances

NEWS 13 SEP 26 WPIDS, WPINDEX, and WPIX coverage of Chinese and  
and Korean patents enhanced

NEWS 14 SEP 29 IFICLS enhanced with new super search field

NEWS 15 SEP 29 EMBASE and EMBAL enhanced with new search and  
display fields

NEWS 16 SEP 30 CAS patent coverage enhanced to include exemplified  
prophetic substances identified in new Japanese-  
language patents

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NEWS 18 OCT 07 Multiple databases enhanced for more flexible patent  
number searching

NEWS 19 OCT 22 Current-awareness alert (SDI) setup and editing  
enhanced

NEWS 20 OCT 22 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT  
Applications

NEWS 21 OCT 24 CHEMLIST enhanced with intermediate list of  
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	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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FILE COVERS 1907 - 7 Nov 2008 VOL 149 ISS 20  
FILE LAST UPDATED: 6 Nov 2008 (20081106/ED)

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BIOSIS indexing.

=> s ((shea or kombo)(s)(kernel or nut or seed or pit or pip) or Butyrospermum or  
Vitellaria) and (meal or flour) and @pd<20020628  
'20020628' NOT A VALID FIELD CODE

332 SHEA  
1 SHEAS  
333 SHEA  
(SHEA OR SHEAS)  
8 KOMBO  
12970 KERNEL  
8870 KERNELS  
18062 KERNEL  
(KERNEL OR KERNELS)  
9450 NUT  
4799 NUTS  
12541 NUT  
(NUT OR NUTS)  
179439 SEED  
108103 SEEDS  
229603 SEED  
(SEED OR SEEDS)  
11336 PIT  
8462 PITS  
18116 PIT  
(PIT OR PITS)  
3135 PIP  
548 PIPS  
3567 PIP  
(PIP OR PIPS)  
63 (SHEA OR KOMBO) (S) (KERNEL OR NUT OR SEED OR PIT OR PIP)  
55 BUTYROSPERMUM  
634 VITELLARIA

```

        1 VITELLARIAS
        634 VITELLARIA
            (VITELLARIA OR VITELLARIAS)
        57916 MEAL
        15038 MEALS
        65817 MEAL
            (MEAL OR MEALS)
        21869 FLOUR
        4167 FLOURS
        23019 FLOUR
            (FLOUR OR FLOURS)
        0 @PD<20020628
L1      0 ((SHEA OR KOMBO) (S) (KERNEL OR NUT OR SEED OR PIT OR PIP) OR BUTY
        ROSPERMUM OR VITELLARIA) AND (MEAL OR FLOUR) AND @PD<20020628

=> s ((shea or kombo) (s) (kernel or nut or seed or pit or pip) or Butyrospermum or
Vitellaria) and (meal or flour) and pd<20020628
        332 SHEA
        1 SHEAS
        333 SHEA
            (SHEA OR SHEAS)
        8 KOMBO
        12970 KERNEL
        8870 KERNELS
        18062 KERNEL
            (KERNEL OR KERNELS)
        9450 NUT
        4799 NUTS
        12541 NUT
            (NUT OR NUTS)
        179439 SEED
        108103 SEEDS
        229603 SEED
            (SEED OR SEEDS)
        11336 PIT
        8462 PITS
        18116 PIT
            (PIT OR PITS)
        3135 PIP
        548 PIPS
        3567 PIP
            (PIP OR PIPS)
        63 (SHEA OR KOMBO) (S) (KERNEL OR NUT OR SEED OR PIT OR PIP)
        55 BUTYROSPERMUM
        634 VITELLARIA
        1 VITELLARIAS
        634 VITELLARIA
            (VITELLARIA OR VITELLARIAS)
        57916 MEAL
        15038 MEALS
        65817 MEAL
            (MEAL OR MEALS)
        21869 FLOUR
        4167 FLOURS
        23019 FLOUR
            (FLOUR OR FLOURS)
        14978682 PD<20020628
            (PD<20020628)
L2      2 ((SHEA OR KOMBO) (S) (KERNEL OR NUT OR SEED OR PIT OR PIP) OR BUTY
        ROSPERMUM OR VITELLARIA) AND (MEAL OR FLOUR) AND PD<20020628

```



=> d 12 1-2 ti

L2 ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Enzyme-assisted extraction of shea fat: Evidence from light  
microscopy on the degradative effects of enzyme treatment on cells of  
shea kernel meal.

L2 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI ALLANTOIN IN SHEA KERNEL.

=> d 12 2 ibib

L2 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
ACCESSION NUMBER: 1977:215817 BIOSIS Full-text  
DOCUMENT NUMBER: PREV197764038181; BA64:38181  
TITLE: ALLANTOIN IN SHEA KERNEL.  
AUTHOR(S): ATA J K B A; FEJER D  
SOURCE: Ghana Journal of Agricultural Science, (1975) No.  
8, pp. 149-152.  
DOCUMENT TYPE: Article  
FILE SEGMENT: BA  
LANGUAGE: Unavailable

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.73	4.42

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FILE COVERS 1907 - 7 Nov 2008 VOL 149 ISS 20  
FILE LAST UPDATED: 6 Nov 2008 (20081106/ED)

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=> s 12

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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

1152 SHEA  
20 KOMBO  
19834 KERNEL  
10543 KERNELS  
26665 KERNEL  
(KERNEL OR KERNELS)  
15240 NUT  
7384 NUTS  
19827 NUT  
(NUT OR NUTS)  
169741 SEED  
106778 SEEDS  
220803 SEED  
(SEED OR SEEDS)  
24056 PIT  
20360 PITS  
38720 PIT  
(PIT OR PITS)  
2973 PIP  
500 PIPS  
3395 PIP  
(PIP OR PIPS)  
176 (SHEA OR KOMBO) (S) (KERNEL OR NUT OR SEED OR PIT OR PIP)  
113 BUTYROSPERMUM  
127 VITELLARIA  
1 VITELLARIAS  
128 VITELLARIA  
(VITELLARIA OR VITELLARIAS)  
66262 MEAL  
22224 MEALS  
75673 MEAL  
(MEAL OR MEALS)  
59220 FLOUR  
16202 FLOURS  
62799 FLOUR  
(FLOUR OR FLOURS)  
22773848 PD<20020628  
(PD<20020628)  
L3 14 ((SHEA OR KOMBO) (S) (KERNEL OR NUT OR SEED OR PIT OR PIP) OR BUTY  
ROSPERMUM OR VITELLARIA) AND (MEAL OR FLOUR) AND PD<20020628

=> d l3 1-14 ti

L3 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Cosmetic composition for care of sensitive skin containing oleanolic acid

L3 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Enzyme-assisted extraction of shea fat: evidence from light  
microscopy on the degradative effects of enzyme treatment on cells of  
shea kernel meal

L3 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Enzyme-assisted aqueous extraction of shea fat: a rural approach

L3 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Enzyme-assisted aqueous extraction of fat from kernels of the  
shea tree, *Butyrospermum parkii*

L3 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN

TI Chemical composition of some plant products of the savanna forest zone of Nigeria  
  
 L3 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Integral technology of fat extraction and meal production from shea nuts  
  
 L3 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Coloring matter for foods  
  
 L3 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Allantoin in shea kernel  
  
 L3 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Solvent extraction of pelleted oilseeds and related materials  
  
 L3 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI A comparative study of anti-locust baits, with special reference to base materials  
  
 L3 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Sapogenins. V. Bassic acid  
  
 L3 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Some African oil seeds  
  
 L3 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Annual report of the agricultural chemist for the year 1933  
  
 L3 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI The uses of mowrah

=> d 13 3-7, 9, 11, 12, 14 ibib

L3 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1995:389362 CAPLUS Full-text  
 DOCUMENT NUMBER: 122:159111  
 ORIGINAL REFERENCE NO.: 122:29329a,29332a  
 TITLE: Enzyme-assisted aqueous extraction of shea fat: a rural approach  
 AUTHOR(S): Tano-Debrah, Kwaku; Ohta, Yoshiyuki  
 CORPORATE SOURCE: Faculty Applied Biological Sciences, Hiroshima University, Higashi-Hiroshima-shi, 724, Japan  
 SOURCE: Journal of the American Oil Chemists' Society ( 1995), 72(2), 251-6  
 CODEN: JAOCA7; ISSN: 0003-021X  
 PUBLISHER: AOCS Press  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L3 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1995:80529 CAPLUS Full-text  
 DOCUMENT NUMBER: 122:54531  
 ORIGINAL REFERENCE NO.: 122:10585a,10588a  
 TITLE: Enzyme-assisted aqueous extraction of fat from kernels of the shea tree, Butyrospermum parkii  
 AUTHOR(S): Tano-Debrah, Kwaku; Ohta, Yoshiyuki  
 CORPORATE SOURCE: Fac. Applied Biological Sci., Hiroshima Univ.,

SOURCE: Higashi-Hiroshima, 724, Japan  
Journal of the American Oil Chemists' Society (1994), 71(9), 979-83  
CODEN: JAOCA7; ISSN: 0003-021X  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L3 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1987:101056 CAPLUS Full-text  
DOCUMENT NUMBER: 106:101056  
ORIGINAL REFERENCE NO.: 106:16541a,16544a  
TITLE: Chemical composition of some plant products of the savanna forest zone of Nigeria  
AUTHOR(S): Farinu, G. O.  
CORPORATE SOURCE: Dep. Biochem., Univ. Ilorin, Ilorin, Nigeria  
SOURCE: Food Chemistry (1986), 22(4), 315-20  
CODEN: FOCHDJ; ISSN: 0308-8146  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L3 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1985:44632 CAPLUS Full-text  
DOCUMENT NUMBER: 102:44632  
ORIGINAL REFERENCE NO.: 102:7010h,7011a  
TITLE: Integral technology of fat extraction and meal production from shea nuts  
AUTHOR(S): Lanzani, A.; Bondioli, P.; Camurati, F.; Cardillo, M.; Gasparoli, A.; Mariani, C.; Fedeli, E.; Ponzetti, A.; Pieralisi, G.  
CORPORATE SOURCE: Staz. Sper. Ind. Oli E Dei Grassi, Milan, Italy  
SOURCE: Rivista Italiana delle Sostanze Grasse (1984), 61(7), 375-83  
CODEN: RISGAD; ISSN: 0035-6808  
DOCUMENT TYPE: Journal  
LANGUAGE: Italian

L3 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1981:45843 CAPLUS Full-text  
DOCUMENT NUMBER: 94:45843  
ORIGINAL REFERENCE NO.: 94:7473a,7476a  
TITLE: Coloring matter for foods  
INVENTOR(S): Oura, Maremi; Tsumura, Haruo; Kubota, Hayato  
PATENT ASSIGNEE(S): Fuji Oil Co., Ltd., Japan  
SOURCE: U.S., 6 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 4229483	A	19801021	US 1978-969261	19781214 <--
JP 54095775	A	19790728	JP 1978-1813	19780110 <--
JP 59037059	B	19840907		
PRIORITY APPLN. INFO.:			JP 1978-1813	A 19780110

L3 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1963:83142 CAPLUS Full-text  
DOCUMENT NUMBER: 58:83142

ORIGINAL REFERENCE NO.: 58:14325h,14326b  
 TITLE: Solvent extraction of pelleted oilseeds and related materials  
 AUTHOR(S): Pritchard, J. L. R.  
 CORPORATE SOURCE: J. Bibby Sons Ltd., Liverpool, UK  
 SOURCE: Journal of the American Oil Chemists' Society ( 1963), 40(No. 4), 22,34,39  
 CODEN: JAOCA7; ISSN: 0003-021X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1939:54210 CAPLUS Full-text  
 DOCUMENT NUMBER: 33:54210  
 ORIGINAL REFERENCE NO.: 33:7809a-h  
 TITLE: Sapogenins. V. Basic acid  
 AUTHOR(S): Heywood, B. Jason; Kon, George A. R.; Ware, Lancelot L.  
 SOURCE: Journal of the Chemical Society (1939) 1124-9  
 CODEN: JCSOA9; ISSN: 0368-1769  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1936:4760 CAPLUS Full-text  
 DOCUMENT NUMBER: 30:4760  
 ORIGINAL REFERENCE NO.: 30:633g-i,634a-i,635a-i,636a  
 TITLE: Some African oil seeds  
 AUTHOR(S): Anon.  
 SOURCE: Bulletin of the Imperial Institute, London ( 1935), 33, 271-93  
 CODEN: BUIIAD; ISSN: 0366-4279  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1927:14049 CAPLUS Full-text  
 DOCUMENT NUMBER: 21:14049  
 ORIGINAL REFERENCE NO.: 21:1719b-c  
 TITLE: The uses of mowrah  
 AUTHOR(S): Carlos, A. S.  
 SOURCE: Fertilizer, Feeding-Stuffs and farm Supplies J. ( 1926), 11, 858  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

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FILE 'CAPLUS' ENTERED AT 12:00:37 ON 07 NOV 2008

FILE 'BIOSIS' ENTERED AT 12:00:41 ON 07 NOV 2008

L1 0 SEA ABB=ON PLU=ON ((SHEA OR KOMBO)(S)(KERNEL OR NUT OR SEED OR PIT OR PIP) OR BUTYROSPERMUM OR VITELLARIA) AND (MEAL OR FLOUR) AND @PD<20020628  
 L2 2 SEA ABB=ON PLU=ON ((SHEA OR KOMBO)(S)(KERNEL OR NUT OR SEED OR PIT OR PIP) OR BUTYROSPERMUM OR VITELLARIA) AND (MEAL OR

FLOUR) AND PD<20020628  
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D L2 2 IBIB

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L3 14 SEA ABB=ON PLU=ON ((SHEA OR KOMBO)(S)(KERNEL OR NUT OR SEED  
OR PIT OR PIP) OR BUTYROSPERMUM OR VITELLARIA) AND (MEAL OR  
FLOUR) AND PD<20020628  
D L3 1-14 TI  
D L3 3-7, 9, 11, 12, 14 IBIB

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FILE COVERS 1907 - 7 Nov 2008 VOL 149 ISS 20  
FILE LAST UPDATED: 6 Nov 2008 (20081106/ED)

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FILE COVERS 1926 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 5 November 2008 (20081105/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926 through 1968. These records have been re-indexed to match current BIOSIS indexing.

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